

Calendar of Events

July 7, 2022

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aosse ()
4 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Berea, KY
IN-PERSON = Historic Boone Tavern Hotel

Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aosse (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 4 and 5 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction, multiplication, division and place value (NBT and OA standards); the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 6 Sessions of the course.

Cost: \$300 per participant

Duration: 6 Sessions (2 in-person days & 4 half-day virtual sessions)

Location: Berea is in Madison County in Central Kentucky which is on Eastern Time

The 2 in-person days will meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Thursday, July 7, 2022; 9:00am-4:00pm (in-person day in Berea, KY)

Session 2: Friday, July 8, 2022; 9:00am-4:00pm (in-person day in Berea, KY)

Sessions 3 & 4: Wednesday, September 14, 2022; 9:00-noon & 1:00-4:00pm Eastern Time (2 half-day virtual sessions on one day)

Sessions 5 & 6: Wednesday, September 28, 2022; 9:00-noon & 1:00-4:00pm Eastern Time (2 half-day virtual sessions on one day)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Thursday, June 30, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

July 8, 2022

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aossey (
4 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Berea, KY
IN-PERSON = Historic Boone Tavern Hotel
Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aossey (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 4 and 5 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction, multiplication, division and place value (NBT and OA standards); the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 6 Sessions of the course.

Cost: \$300 per participant

Duration: 6 Sessions (2 in-person days & 4 half-day virtual sessions)

Location: Berea is in Madison County in Central Kentucky which is on Eastern Time

The 2 in-person days will meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

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Sessions 3 & 4: Wednesday, September 14, 2022; 9:00-noon & 1:00-4:00pm Eastern Time (2 half-day virtual sessions on one day)

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July 15, 2022

AVMR PLUS: PART 1 (Virtual AVMR1 with bonus in-person day) -Lexington - Cindy Aossey (2)
Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY
In Person = Hilton Downtown Lexington
Lexington , KY 40507

Sessions 1&2, 3&4 and 5&6=9am-3:30 pm; Sessions 7&8=12-2 pm; Session 9=9am-4pm E
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

AVMR PLUS?: PART 1

Course Description:

Participants in KCM's AVMR PLUS: PART 1 will complete Add+Vantage Math Recovery (AVMR™) Course 1 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include identifying numerals, counting, addition, and subtraction.

AVMR PLUS: PART 1 is the first part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

After AVMR PLUS: PART 1, participants can choose to continue their learning with AVMR PLUS: PART 2 which includes Add+Vantage Math Recovery (AVMR™) Courses 2 and another bonus KCM-designed in-person day. Topics covered in AVMR PLUS: Part 2 include place value, multi-digit addition & subtraction, and multiplication & division. Participants must register for AVMR PLUS: PART 2 separately.

COST OF AVMR PLUS: PART 1: \$500 per participant

DURATION: 8 virtual sessions plus one bonus in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session. On days where the schedule consists of 2 two-hour virtual sessions, participants will have a 2.5-hour break between sessions to allow time for lunch and one hour of independent work.

SCHEDULE FOR AVMR PLUS: PART 1:

Sessions 1 & 2: Friday, July 15, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 3 & 4: Friday, July 22, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 5 & 6: Friday, July 29, 2022; 9:00am-3:30 Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Session 7: Friday, September 9, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 8: Friday, September 16, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 9: Friday October 21, 2022; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is May 27, 2022.*

The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

The Kentucky Center for Mathematics' AVMR PLUS: PART 2 begins November 2, 2022, and is currently open for registrations. Participants must register for AVMR PLUS: PART 2 separately and must complete AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1 in order to attend AVMR PLUS:

PART 2.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

July 18, 2022

Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey & Dee C
1 in-person day in Louisville, KY; 4 virtual online sessions via ZOOM
The in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders
Louisville, KY 40222

In-person on 7/18 = 9am-4pm EST; all other virtual sessions = 4-5:30pm OR noon-3
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

*Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey
& Dee Crescitelli (2022-23)*

COURSE DESCRIPTION:

**This course is available only to educators in Kentucky*

This course provides an opportunity for classroom teachers of students in Grades 5 through 8 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards, this course will use instructional routines to give participants specific and repeatable designs for learning that support both the teacher and students in the classroom.

Reasoning routines for the middle grades are designed to improve student problem-solving, build crucial mathematical thinking habits, and improve classroom discourse.

Cost: FREE (open to only Kentucky math educators)

Duration:

PLEASE NOTE: There are two options for the virtual follow-up sessions. Participants can choose to attend four 90-minute virtual sessions that meet AFTER school hours from 4:00-5:30 pm Eastern, OR they can choose to attend two half-day virtual sessions that meet DURING school hours from noon-3pm Eastern. Please see the detailed schedules for Option 1 and Option 2 below.

OPTION 1: 5 Sessions (one in-person day and four 90-minute virtual sessions after school hours)

OPTION 2: 3 Sessions (one in-person day and two half-day virtual sessions during school hours)

Locations:

*1 in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building
Virtual sessions meet online via ZOOM*

**You must register to participate in this professional learning event. Registration deadline is July 8, 2022.*

BEFORE REGISTERING, PLEASE NOTE:

The virtual sessions are not recordings that can be watched at any other time. Participants must be able to participate via ZOOM on Tuesdays as scheduled from 4:00-5:30 pm EST for Option 1 or from noon-3:00 pm EST for Option 2; and participants must be able to attend in person in Louisville on Monday, July 18, 2022. During registration, you will select course schedule OPTION 1 or course schedule OPTION 2 when you select your registration package.

Course Schedule for OPTION 1:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 13, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 3: Tuesday, September 27, 2022; 4:00-5:30 pm Eastern Time (90 minute

virtual)

SESSION 4: Tuesday, October 18, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 5: Tuesday, November 1, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

Course Schedule for OPTION 2:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 27, 2022; noon-3:00 pm Eastern Time (half-day virtual)

SESSION 3: Tuesday, November 1, 2022; noon-3:00 pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

PLEASE NOTE: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

July 22, 2022

AVMR PLUS: PART 1 (Virtual AVMR1 with bonus in-person day) -Lexington - Cindy Aossey (2)
Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY
In Person = Hilton Downtown Lexington
Lexington , KY 40507

Sessions 1&2, 3&4 and 5&6=9am-3:30 pm; Sessions 7&8=12-2 pm; Session 9=9am-4pm E
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

AVMR PLUS?: PART 1

Course Description:

Participants in KCM's AVMR PLUS: PART 1 will complete Add+Vantage Math Recovery (AVMR™) Course 1 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include identifying numerals, counting, addition, and subtraction.

AVMR PLUS: PART 1 is the first part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

After AVMR PLUS: PART 1, participants can choose to continue their learning with AVMR PLUS: PART 2 which includes Add+Vantage Math Recovery (AVMR™) Courses 2 and another bonus KCM-designed in-person day. Topics covered in AVMR PLUS: Part 2 include place value, multi-digit addition & subtraction, and multiplication & division. Participants must register for AVMR PLUS: PART 2 separately.

COST OF AVMR PLUS: PART 1: \$500 per participant

DURATION: 8 virtual sessions plus one bonus in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session. On days where the schedule consists of 2 two-hour virtual sessions, participants will have a 2.5-hour break between sessions to allow time for lunch and one hour of independent work.

SCHEDULE FOR AVMR PLUS: PART 1:

Sessions 1 & 2: Friday, July 15, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 3 & 4: Friday, July 22, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 5 & 6: Friday, July 29, 2022; 9:00am-3:30 Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Session 7: Friday, September 9, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 8: Friday, September 16, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 9: Friday October 21, 2022; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is May 27, 2022.*

The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

The Kentucky Center for Mathematics' AVMR PLUS: PART 2 begins November 2, 2022, and is currently open for registrations. Participants must register for AVMR PLUS: PART 2 separately and must complete AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1 in order to attend AVMR PLUS:

PART 2.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

July 25, 2022

Explorations in Number Talks & Routines Grades 2 & 3 - HYBRID, Berea, KY - Cindy Aossey (2022-23)
2 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Berea, KY
IN-PERSON = Historic Boone Tavern Hotel
Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in Number Talks & Routines Grades 2 & 3 - HYBRID, Berea, KY - Cindy Aossey (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 2 and 3 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction and place value from the NBT and OA standards; the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 4 Sessions of the course.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days & 2 half-day virtual sessions)

Location: Berea is in Madison County in Central Kentucky which is on Eastern Time. The 2 in-person days will meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

The 2 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Monday, July 25, 2022; 9:00am-4:00pm Eastern Time (in-person day in Berea, KY)

Session 2: Tuesday, July 26, 2022; 9:00am-4:00pm Eastern Time (in-person day in Berea, KY)

Sessions 3 & 4: Thursday, September 22, 2022; 9:00am-noon & 1:00-4:00pm Eastern Time (two half-day virtual sessions on one day)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Monday, June 27, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

July 26, 2022

Explorations in Number Talks & Routines Grades 2 & 3 - HYBRID, Berea, KY - Cindy Aossey (2022-23)
2 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Berea, KY
IN-PERSON = Historic Boone Tavern Hotel
Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in Number Talks & Routines Grades 2 & 3 - HYBRID, Berea, KY - Cindy Aossey (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 2 and 3 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction and place value from the NBT and OA standards; the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 4 Sessions of the course.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days & 2 half-day virtual sessions)

Location: Berea is in Madison County in Central Kentucky which is on Eastern Time. The 2 in-person days will meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

The 2 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Monday, July 25, 2022; 9:00am-4:00pm Eastern Time (in-person day in Berea, KY)

Session 2: Tuesday, July 26, 2022; 9:00am-4:00pm Eastern Time (in-person day in Berea, KY)

Sessions 3 & 4: Thursday, September 22, 2022; 9:00am-noon & 1:00-4:00pm Eastern Time (two half-day virtual sessions on one day)

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July 26, 2022

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Louisville, KY - Leah Dix (2022-23)
4 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Louisville, KY
In-person days at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building, Louisville, KY 40222

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

6/16/22: This cohort of Explorations in Number Talks and Routines Grades 4 & 5 in Louisville has been canceled.

This same training is available for 2022-23 in BERE A, KY, in Madison County.

Please click [here](#) to see the Berea schedule and register for that cohort.

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Louisville KY - Leah Dix (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 4 and 5 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction, multiplication, division and place value (NBT and OA standards); the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 6 Sessions of the course.

Cost: \$300 per participant

Duration: 6 Sessions (2 in-person days & 4 half-day virtual sessions)

Location:

2 in-person days will meet at the Founders Union Building at the University of Louisville Conference Center, ShelbyHurst Campus

4 half-day virtual sessions will meet online via ZOOM.

COURSE SCHEDULE:

Session 1: Tuesday, July 26, 2022; 9:00am-4:00pm (in-person day in Louisville, KY)

Session 2: Wednesday, July 27, 2022; 9:00am-4:00pm (in-person day in Louisville, KY)

Session 3: Tuesday, September 6, 2022; 1:00-4:00pm Eastern Time (half-day virtual session)

Session 4: Wednesday, September 7, 2022; 1:00-4:00pm Eastern Time (half-day virtual session)

Session 5: Tuesday, September 13, 2022; 1:00-4:00pm Eastern Time (half-day virtual session)

Session 6: Wednesday, September 14, 2022; 1:00-4:00pm Eastern Time (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

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July 29, 2022

AVMR PLUS: PART 1 (Virtual AVMR1 with bonus in-person day) -Lexington - Cindy Aossey (2)
Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY
In Person = Hilton Downtown Lexington
Lexington , KY 40507

Sessions 1&2, 3&4 and 5&6=9am-3:30 pm; Sessions 7&8=12-2 pm; Session 9=9am-4pm E
Kentucky Center for Mathematics , 859-572-7690
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AVMR PLUS?: PART 1

Course Description:

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After AVMR PLUS: PART 1, participants can choose to continue their learning with AVMR PLUS: PART 2 which includes Add+Vantage Math Recovery (AVMR™) Courses 2 and another bonus KCM-designed in-person day. Topics covered in AVMR PLUS: Part 2 include place value, multi-digit addition & subtraction, and multiplication & division. Participants must register for AVMR PLUS: PART 2 separately.

COST OF AVMR PLUS: PART 1: \$500 per participant

DURATION: 8 virtual sessions plus one bonus in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session. On days where the schedule consists of 2 two-hour virtual sessions, participants will have a 2.5-hour break between sessions to allow time for lunch and one hour of independent work.

SCHEDULE FOR AVMR PLUS: PART 1:

Sessions 1 & 2: Friday, July 15, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

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Sessions 5 & 6: Friday, July 29, 2022; 9:00am-3:30 Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Session 7: Friday, September 9, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 8: Friday, September 16, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 9: Friday October 21, 2022; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is May 27, 2022.*

The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

The Kentucky Center for Mathematics' AVMR PLUS: PART 2 begins November 2, 2022, and is currently open for registrations. Participants must register for AVMR PLUS: PART 2 separately and must complete AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1 in order to attend AVMR PLUS:

PART 2.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

July 29, 2022

Math Fact Fluency - HYBRID COURSE - Lexington, KY - Kelly DeLong (2022-23)
in-person days are at the Hilton in Downtown Lexington, KY, and half-day sessions are VIRTUAL via ZOOM
Hilton Downtown Lexington
Lexington, KY 40507

In-person on 8/25 & 9/21 = 9am-4pm EST; virtual on 7/29 & 9/28 = 1-4 pm EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: In-person at the Hilton in Downtown Lexington, KY; virtual sessions meet via ZOOM

SCHEDULE:

Session 1: Friday, July 29, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Session 2: Thursday, August 25, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 3: Wednesday, September 21, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 4: Wednesday, September 28, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Registration cutoff date is July 1, 2022.

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

August 4, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

August 11, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

August 18, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

August 23, 2022

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM

**In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville, KY 40222**

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST
Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

THIS COURSE IS FULL. Please click here to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning

Elementary and Middle School Mathematics Teaching Developmentally, 10th edition

Building Powerful Numeracy for Middle School & High School Students

Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

*2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center,
ShelbyHurst Campus, Founders Union Building*

8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

August 24, 2022

Mastering Manipulatives (K-2) - Hybrid, Hopkinsville, KY - Bonny Riedell - (2022-23)

2 half-day virtual sessions meet via ZOOM; in-person day meets in Hopkinsville, KY

In-Person = The Bruce Convention Center

Hopkinsville , KY 42240

virtual on 8/24 & 9/7 = 12-3pm CST; in-person on 8/31 = 9am-4pm CST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Mastering Manipulatives (K-2) - Hybrid, Hopkinsville, KY - Bonny Riedell - (2022-23)

Course Description:

Manipulatives can be a powerful learning tool to help students discover and represent mathematical concepts.

This course explores ways to increase conceptual understanding through the use of concrete and virtual manipulatives.

We will support this learning with discussions on connecting representations and integrating research based instructional strategies.

Participants will walk away with manipulatives for their classroom and ideas on how to use them effectively.

Cost: \$100 per participant

Duration: 3 Sessions (1 in-person day & 2 half-day virtual sessions)

Location: In-person day will meet in Hopkinsville, KY; 2 half-day virtual sessions will meet online via ZOOM.

(Please Note: Hopkinsville is in Christian County in Western Kentucky which is on Central Time)

COURSE SCHEDULE:

Session 1: Wednesday, Aug. 24, 2022; noon-3:00 Central Time (half-day virtual session)

Session 2: Wednesday, Aug. 31, 2022; 9:00am-4:00pm Central Time (in-person - in Hopkinsville, KY)

Session 3: Wednesday, Sept. 7, 2022; noon-3:00 Central Time (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Wednesday, July 27, 2022.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM at 859-572-7690 or kcm@nku.edu. If materials have already been ordered, your school or district should send a different teacher in your place.

August 25, 2022

Math Fact Fluency - HYBRID COURSE - Lexington, KY - Kelly DeLong (2022-23)
in-person days are at the Hilton in Downtown Lexington, KY, and half-day sessions are VIRTUAL via ZOOM
Hilton Downtown Lexington
Lexington, KY 40507

In-person on 8/25 & 9/21 = 9am-4pm EST; virtual on 7/29 & 9/28 = 1-4 pm EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: In-person at the Hilton in Downtown Lexington, KY; virtual sessions meet via ZOOM

SCHEDULE:

Session 1: Friday, July 29, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Session 2: Thursday, August 25, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 3: Wednesday, September 21, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 4: Wednesday, September 28, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Registration cutoff date is July 1, 2022.

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

August 25, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

August 26, 2022

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

** Implementation of participant's 1st Family Math Night to occur before December 31, 2022.*

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

** Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.*

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

August 31, 2022

Mastering Manipulatives (K-2) - Hybrid, Hopkinsville, KY - Bonny Riedell - (2022-23)

2 half-day virtual sessions meet via ZOOM; in-person day meets in Hopkinsville, KY

In-Person = The Bruce Convention Center

Hopkinsville , KY 42240

virtual on 8/24 & 9/7 = 12-3pm CST; in-person on 8/31 = 9am-4pm CST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Mastering Manipulatives (K-2) - Hybrid, Hopkinsville, KY - Bonny Riedell - (2022-23)

Course Description:

Manipulatives can be a powerful learning tool to help students discover and represent mathematical concepts.

This course explores ways to increase conceptual understanding through the use of concrete and virtual manipulatives.

We will support this learning with discussions on connecting representations and integrating research based instructional strategies.

Participants will walk away with manipulatives for their classroom and ideas on how to use them effectively.

Cost: \$100 per participant

Duration: 3 Sessions (1 in-person day & 2 half-day virtual sessions)

Location: In-person day will meet in Hopkinsville, KY; 2 half-day virtual sessions will meet online via ZOOM.

(Please Note: Hopkinsville is in Christian County in Western Kentucky which is on Central Time)

COURSE SCHEDULE:

Session 1: Wednesday, Aug. 24, 2022; noon-3:00 Central Time (half-day virtual session)

Session 2: Wednesday, Aug. 31, 2022; 9:00am-4:00pm Central Time (in-person - in Hopkinsville, KY)

Session 3: Wednesday, Sept. 7, 2022; noon-3:00 Central Time (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Wednesday, July 27, 2022.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM at 859-572-7690 or kcm@nku.edu. If materials have already been ordered, your school or district should send a different teacher in your place.

September 1, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

September 7, 2022

Mastering Manipulatives (K-2) - Hybrid, Hopkinsville, KY - Bonny Riedell - (2022-23)

2 half-day virtual sessions meet via ZOOM; in-person day meets in Hopkinsville, KY

In-Person = The Bruce Convention Center

Hopkinsville , KY 42240

virtual on 8/24 & 9/7 = 12-3pm CST; in-person on 8/31 = 9am-4pm CST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Mastering Manipulatives (K-2) - Hybrid, Hopkinsville, KY - Bonny Riedell - (2022-23)

Course Description:

Manipulatives can be a powerful learning tool to help students discover and represent mathematical concepts.

This course explores ways to increase conceptual understanding through the use of concrete and virtual manipulatives.

We will support this learning with discussions on connecting representations and integrating research based instructional strategies.

Participants will walk away with manipulatives for their classroom and ideas on how to use them effectively.

Cost: \$100 per participant

Duration: 3 Sessions (1 in-person day & 2 half-day virtual sessions)

Location: In-person day will meet in Hopkinsville, KY; 2 half-day virtual sessions will meet online via ZOOM.

(Please Note: Hopkinsville is in Christian County in Western Kentucky which is on Central Time)

COURSE SCHEDULE:

Session 1: Wednesday, Aug. 24, 2022; noon-3:00 Central Time (half-day virtual session)

Session 2: Wednesday, Aug. 31, 2022; 9:00am-4:00pm Central Time (in-person - in Hopkinsville, KY)

Session 3: Wednesday, Sept. 7, 2022; noon-3:00 Central Time (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Wednesday, July 27, 2022.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM at 859-572-7690 or kcm@nku.edu. If materials have already been ordered, your school or district should send a different teacher in your place.

September 8, 2022

Math Fact Fluency - HYBRID COURSE - Hopkinsville, KY - Bonny Riedell (2022-23)
IN-PERSON days meet in Hopkinsville, KY; VIRTUAL half-day sessions meet online via live ZOOM meetings
IN-PERSON = Bruce Convention Center
Hopkinsville, KY 42240

Virtual on 9/8 & 12/8 = 12-3 pm CST; In-person on 9/28 & 11/2 = 9am-4pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: Hopkinsville, KY (Western Kentucky - Christian County = Central Time Zone)
The 2 In-person days meet at The Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day Virtual Sessions meet online via live ZOOM meetings

SCHEDULE:

Session 1: Thursday, September 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Session 2: Wednesday, September 28, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 3: Wednesday, November 2, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 4: Thursday, December 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Please Note: This cohort meets during Central Time. If you live and/or work in an Eastern Time Zone, know that 12-3pm Central Time is 1-4pm Eastern Time, and 9am-4pm Central Time is 10am-5pm Eastern Time.

Registration cutoff date is August 11, 2022

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

September 8, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

September 9, 2022

Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-23)
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LOUISVILLE, KY****

LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

September 9, 2022

AVMR PLUS: PART 1 (Virtual AVMR1 with bonus in-person day) -Lexington - Cindy Aossey (2)
Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY
In Person = Hilton Downtown Lexington
Lexington , KY 40507

Sessions 1&2, 3&4 and 5&6=9am-3:30 pm; Sessions 7&8=12-2 pm; Session 9=9am-4pm E
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

AVMR PLUS?: PART 1

Course Description:

Participants in KCM's AVMR PLUS: PART 1 will complete Add+Vantage Math Recovery (AVMR™) Course 1 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include identifying numerals, counting, addition, and subtraction.

AVMR PLUS: PART 1 is the first part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

After AVMR PLUS: PART 1, participants can choose to continue their learning with AVMR PLUS: PART 2 which includes Add+Vantage Math Recovery (AVMR™) Courses 2 and another bonus KCM-designed in-person day. Topics covered in AVMR PLUS: Part 2 include place value, multi-digit addition & subtraction, and multiplication & division. Participants must register for AVMR PLUS: PART 2 separately.

COST OF AVMR PLUS: PART 1: \$500 per participant

DURATION: 8 virtual sessions plus one bonus in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session. On days where the schedule consists of 2 two-hour virtual sessions, participants will have a 2.5-hour break between sessions to allow time for lunch and one hour of independent work.

SCHEDULE FOR AVMR PLUS: PART 1:

Sessions 1 & 2: Friday, July 15, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 3 & 4: Friday, July 22, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 5 & 6: Friday, July 29, 2022; 9:00am-3:30 Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Session 7: Friday, September 9, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 8: Friday, September 16, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 9: Friday October 21, 2022; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is May 27, 2022.*

The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

The Kentucky Center for Mathematics' AVMR PLUS: PART 2 begins November 2, 2022, and is currently open for registrations. Participants must register for AVMR PLUS: PART 2 separately and must complete AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1 in order to attend AVMR PLUS:

PART 2.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

September 9, 2022

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

** Implementation of participant's 1st Family Math Night to occur before December 31, 2022.*

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

** Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.*

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

September 13, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

virtual sessions in Sept = noon-3pm EST; in-person on 10/19 & 11/16 = 9am-4pm ES

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Tuesday, September 13, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 2: Wednesday, September 14, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Tuesday, September 27, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Wednesday, September 28, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, October 19, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 6: Wednesday, November 16, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 16, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money,

Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

September 13, 2022

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny
2 half-day virtual sessions meet online via ZOOM; 2 in-person days meets in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

In-person on 9/13 & 10/18 = 9am-4pm CST; virtual on 11/9 & 11/10 = 12-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny Riedell (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 2 and 3 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction and place value from the NBT and OA standards; the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 4 Sessions of the course.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days & 2 half-day virtual sessions)

Location: Hopkinsville is in Christian County in Western Kentucky which is on Central Time

The 2 in-person days will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Tuesday, September 13, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 2: Tuesday, October 18, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 3: Wednesday, November 9, 2022; noon-3:00 pm Central Time (half-day virtual session)

Session 4: Thursday, November 10, 2022 noon-3:00 pm Central (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Tuesday, August 16, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

September 13, 2022

Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey & Dee C
1 in-person day in Louisville, KY; 4 virtual online sessions via ZOOM
The in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders
Louisville, KY 40222

In-person on 7/18 = 9am-4pm EST; all other virtual sessions = 4-5:30pm OR noon-3
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

*Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey
& Dee Crescitelli (2022-23)*

COURSE DESCRIPTION:

**This course is available only to educators in Kentucky*

This course provides an opportunity for classroom teachers of students in Grades 5 through 8 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards, this course will use instructional routines to give participants specific and repeatable designs for learning that support both the teacher and students in the classroom.

Reasoning routines for the middle grades are designed to improve student problem-solving, build crucial mathematical thinking habits, and improve classroom discourse.

Cost: FREE (open to only Kentucky math educators)

Duration:

PLEASE NOTE: There are two options for the virtual follow-up sessions. Participants can choose to attend four 90-minute virtual sessions that meet AFTER school hours from 4:00-5:30 pm Eastern, OR they can choose to attend two half-day virtual sessions that meet DURING school hours from noon-3pm Eastern. Please see the detailed schedules for Option 1 and Option 2 below.

OPTION 1: 5 Sessions (one in-person day and four 90-minute virtual sessions after school hours)

OPTION 2: 3 Sessions (one in-person day and two half-day virtual sessions during school hours)

Locations:

*1 in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building
Virtual sessions meet online via ZOOM*

**You must register to participate in this professional learning event. Registration deadline is July 8, 2022.*

BEFORE REGISTERING, PLEASE NOTE:

The virtual sessions are not recordings that can be watched at any other time. Participants must be able to participate via ZOOM on Tuesdays as scheduled from 4:00-5:30 pm EST for Option 1 or from noon-3:00 pm EST for Option 2; and participants must be able to attend in person in Louisville on Monday, July 18, 2022. During registration, you will select course schedule OPTION 1 or course schedule OPTION 2 when you select your registration package.

Course Schedule for OPTION 1:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 13, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 3: Tuesday, September 27, 2022; 4:00-5:30 pm Eastern Time (90 minute

virtual)

SESSION 4: Tuesday, October 18, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 5: Tuesday, November 1, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

Course Schedule for OPTION 2:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 27, 2022; noon-3:00 pm Eastern Time (half-day virtual)

SESSION 3: Tuesday, November 1, 2022; noon-3:00 pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

PLEASE NOTE: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

September 14, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

virtual sessions in Sept = noon-3pm EST; in-person on 10/19 & 11/16 = 9am-4pm ES

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Tuesday, September 13, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 2: Wednesday, September 14, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Tuesday, September 27, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Wednesday, September 28, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, October 19, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 6: Wednesday, November 16, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 16, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money,

Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

September 14, 2022

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aossey (
4 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Berea, KY
IN-PERSON = Historic Boone Tavern Hotel
Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aossey (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 4 and 5 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction, multiplication, division and place value (NBT and OA standards); the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 6 Sessions of the course.

Cost: \$300 per participant

Duration: 6 Sessions (2 in-person days & 4 half-day virtual sessions)

*Location: Berea is in Madison County in Central Kentucky which is on Eastern Time
The 2 in-person days will meet at the Historic Boone Tavern Hotel, 100 S Main St North,
Berea, KY 40403*

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Thursday, July 7, 2022; 9:00am-4:00pm (in-person day in Berea, KY)

Session 2: Friday, July 8, 2022; 9:00am-4:00pm (in-person day in Berea, KY)

Sessions 3 & 4: Wednesday, September 14, 2022; 9:00-noon & 1:00-4:00pm Eastern Time (2 half-day virtual sessions on one day)

Sessions 5 & 6: Wednesday, September 28, 2022; 9:00-noon & 1:00-4:00pm Eastern Time (2 half-day virtual sessions on one day)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Thursday, June 30, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

September 15, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

September 16, 2022

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

September 16, 2022

AVMR PLUS: PART 1 (Virtual AVMR1 with bonus in-person day) -Lexington - Cindy Aossey (2)
Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY
In Person = Hilton Downtown Lexington
Lexington , KY 40507

Sessions 1&2, 3&4 and 5&6=9am-3:30 pm; Sessions 7&8=12-2 pm; Session 9=9am-4pm E
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

AVMR PLUS?: PART 1

Course Description:

Participants in KCM's AVMR PLUS: PART 1 will complete Add+Vantage Math Recovery (AVMR™) Course 1 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include identifying numerals, counting, addition, and subtraction.

AVMR PLUS: PART 1 is the first part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

After AVMR PLUS: PART 1, participants can choose to continue their learning with AVMR PLUS: PART 2 which includes Add+Vantage Math Recovery (AVMR™) Courses 2 and another bonus KCM-designed in-person day. Topics covered in AVMR PLUS: Part 2 include place value, multi-digit addition & subtraction, and multiplication & division. Participants must register for AVMR PLUS: PART 2 separately.

COST OF AVMR PLUS: PART 1: \$500 per participant

DURATION: 8 virtual sessions plus one bonus in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session. On days where the schedule consists of 2 two-hour virtual sessions, participants will have a 2.5-hour break between sessions to allow time for lunch and one hour of independent work.

SCHEDULE FOR AVMR PLUS: PART 1:

Sessions 1 & 2: Friday, July 15, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 3 & 4: Friday, July 22, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 5 & 6: Friday, July 29, 2022; 9:00am-3:30 Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Session 7: Friday, September 9, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 8: Friday, September 16, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 9: Friday October 21, 2022; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is May 27, 2022.*

The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

The Kentucky Center for Mathematics' AVMR PLUS: PART 2 begins November 2, 2022, and is currently open for registrations. Participants must register for AVMR PLUS: PART 2 separately and must complete AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1 in order to attend AVMR PLUS:

PART 2.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

September 20, 2022

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM

**In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville , KY 40222**

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

THIS COURSE IS FULL. Please click here to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning

Elementary and Middle School Mathematics Teaching Developmentally, 10th edition

Building Powerful Numeracy for Middle School & High School Students

Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building

8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

September 20, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

virtual sessions in Sept & Oct = noon-3pm CST; in-person on 11/15 & 12/6 = 9am-4
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, September 20, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 2: Wednesday, September 21, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Tuesday, October 25, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Wednesday, October 26, 2022: noon-3:00pm Central Time. (VIRTUAL)

Session 5: Tuesday, November 15, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 6: Tuesday, December 6, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 23, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades

K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money, Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

September 21, 2022

Math Fact Fluency - HYBRID COURSE - Lexington, KY - Kelly DeLong (2022-23)

in-person days are at the Hilton in Downtown Lexington, KY, and half-day sessions are VIRTUAL via ZOOM

Hilton Downtown Lexington

Lexington, KY 40507

In-person on 8/25 & 9/21 = 9am-4pm EST; virtual on 7/29 & 9/28 = 1-4 pm EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: In-person at the Hilton in Downtown Lexington, KY; virtual sessions meet via ZOOM

SCHEDULE:

Session 1: Friday, July 29, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Session 2: Thursday, August 25, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 3: Wednesday, September 21, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 4: Wednesday, September 28, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Registration cutoff date is July 1, 2022.

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

September 21, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

virtual sessions in Sept & Oct = noon-3pm CST; in-person on 11/15 & 12/6 = 9am-4
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, September 20, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 2: Wednesday, September 21, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Tuesday, October 25, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Wednesday, October 26, 2022: noon-3:00pm Central Time. (VIRTUAL)

Session 5: Tuesday, November 15, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 6: Tuesday, December 6, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 23, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades

K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money, Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

September 22, 2022

AVMR 1 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 1 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers to learn and practice assessments and teaching strategies for advancing students' foundational knowledge of whole number topics such as number words and numerals, structuring numbers, addition and subtraction, and topics that affect the development of future mathematical understanding. The topics and domains covered often appear later on as holes in understanding for older struggling students.

This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: August 4, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 2: August 11, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 3: August 18, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 4: August 25, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 5: September 1, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 6: September. 8, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 7: September 15, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Session 8: September 22, 2022; 4:30-6:30pm Eastern Time/3:30-5:30pm Central Time (two-hour session)

Registration close date is June 16, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

The Kentucky Center for Mathematics is offering AVMR 2 which begins on January 5, 2023. Registration is also open for that AVMR 2 training.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR1 kit is ordered.

September 22, 2022

Explorations in Number Talks & Routines Grades 2 & 3 - HYBRID, Berea, KY - Cindy Aossey (
2 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Berea, KY
IN-PERSON = Historic Boone Tavern Hotel
Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in Number Talks & Routines Grades 2 & 3 - HYBRID, Berea, KY - Cindy Aossey (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 2 and 3 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction and place value from the NBT and OA standards; the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 4 Sessions of the course.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days & 2 half-day virtual sessions)

*Location: Berea is in Madison County in Central Kentucky which is on Eastern Time
The 2 in-person days will meet at the Historic Boone Tavern Hotel, 100 S Main St North,
Berea, KY 40403*

The 2 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Monday, July 25, 2022; 9:00am-4:00pm Eastern Time (in-person day in Berea, KY)

Session 2: Tuesday, July 26, 2022; 9:00am-4:00pm Eastern Time (in-person day in Berea, KY)

Sessions 3 & 4: Thursday, September 22, 2022; 9:00am-noon & 1:00-4:00pm Eastern Time (two half-day virtual sessions on one day)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Monday, June 27, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

* Implementation of participant's 1st Family Math Night to occur before December 31, 2022.

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

* Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

September 27, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

virtual sessions in Sept = noon-3pm EST; in-person on 10/19 & 11/16 = 9am-4pm ES

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Tuesday, September 13, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 2: Wednesday, September 14, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Tuesday, September 27, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Wednesday, September 28, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, October 19, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 6: Wednesday, November 16, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 16, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money,

Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey & Dee C
1 in-person day in Louisville, KY; 4 virtual online sessions via ZOOM
The in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders
Louisville, KY 40222

In-person on 7/18 = 9am-4pm EST; all other virtual sessions = 4-5:30pm OR noon-3
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

*Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey
& Dee Crescitelli (2022-23)*

COURSE DESCRIPTION:

**This course is available only to educators in Kentucky*

This course provides an opportunity for classroom teachers of students in Grades 5 through 8 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards, this course will use instructional routines to give participants specific and repeatable designs for learning that support both the teacher and students in the classroom.

Reasoning routines for the middle grades are designed to improve student problem-solving, build crucial mathematical thinking habits, and improve classroom discourse.

Cost: FREE (open to only Kentucky math educators)

Duration:

PLEASE NOTE: There are two options for the virtual follow-up sessions. Participants can choose to attend four 90-minute virtual sessions that meet AFTER school hours from 4:00-5:30 pm Eastern, OR they can choose to attend two half-day virtual sessions that meet DURING school hours from noon-3pm Eastern. Please see the detailed schedules for Option 1 and Option 2 below.

OPTION 1: 5 Sessions (one in-person day and four 90-minute virtual sessions after school hours)

OPTION 2: 3 Sessions (one in-person day and two half-day virtual sessions during school hours)

Locations:

*1 in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building
Virtual sessions meet online via ZOOM*

**You must register to participate in this professional learning event. Registration deadline is July 8, 2022.*

BEFORE REGISTERING, PLEASE NOTE:

The virtual sessions are not recordings that can be watched at any other time. Participants must be able to participate via ZOOM on Tuesdays as scheduled from 4:00-5:30 pm EST for Option 1 or from noon-3:00 pm EST for Option 2; and participants must be able to attend in person in Louisville on Monday, July 18, 2022. During registration, you will select course schedule OPTION 1 or course schedule OPTION 2 when you select your registration package.

Course Schedule for OPTION 1:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 13, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 3: Tuesday, September 27, 2022; 4:00-5:30 pm Eastern Time (90 minute

virtual)

SESSION 4: Tuesday, October 18, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 5: Tuesday, November 1, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

Course Schedule for OPTION 2:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 27, 2022; noon-3:00 pm Eastern Time (half-day virtual)

SESSION 3: Tuesday, November 1, 2022; noon-3:00 pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

PLEASE NOTE: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

September 28, 2022

Math Fact Fluency - HYBRID COURSE - Hopkinsville, KY - Bonny Riedell (2022-23)
IN-PERSON days meet in Hopkinsville, KY; VIRTUAL half-day sessions meet online via live ZOOM meeti
IN-PERSON = Bruce Convention Center
Hopkinsville, KY 42240

Virtual on 9/8 & 12/8 = 12-3 pm CST; In-person on 9/28 & 11/2 = 9am-4pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: Hopkinsville, KY (Western Kentucky - Christian County = Central Time Zone)
The 2 In-person days meet at The Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day Virtual Sessions meet online via live ZOOM meetings

SCHEDULE:

Session 1: Thursday, September 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Session 2: Wednesday, September 28, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 3: Wednesday, November 2, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 4: Thursday, December 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Please Note: This cohort meets during Central Time. If you live and/or work in an Eastern Time Zone, know that 12-3pm Central Time is 1-4pm Eastern Time, and 9am-4pm Central Time is 10am-5pm Eastern Time.

Registration cutoff date is August 11, 2022

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

September 28, 2022

Math Fact Fluency - HYBRID COURSE - Lexington, KY - Kelly DeLong (2022-23)

in-person days are at the Hilton in Downtown Lexington, KY, and half-day sessions are VIRTUAL via ZOOM

Hilton Downtown Lexington

Lexington, KY 40507

In-person on 8/25 & 9/21 = 9am-4pm EST; virtual on 7/29 & 9/28 = 1-4 pm EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: In-person at the Hilton in Downtown Lexington, KY; virtual sessions meet via ZOOM

SCHEDULE:

Session 1: Friday, July 29, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Session 2: Thursday, August 25, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 3: Wednesday, September 21, 2022; 9:00 am - 4:00 pm Eastern Time (1 in-person day)

Session 4: Wednesday, September 28, 2022; 1:00 pm - 4:00 pm Eastern Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Registration cutoff date is July 1, 2022.

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

September 28, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

virtual sessions in Sept = noon-3pm EST; in-person on 10/19 & 11/16 = 9am-4pm ES

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Tuesday, September 13, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 2: Wednesday, September 14, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Tuesday, September 27, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Wednesday, September 28, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, October 19, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 6: Wednesday, November 16, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 16, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money,

Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

September 28, 2022

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aossey (
4 half-day virtual sessions meet via ZOOM; 2 in-person days meets in Berea, KY
IN-PERSON = Historic Boone Tavern Hotel
Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in Number Talks & Routines Grades 4 & 5 - HYBRID, Berea, KY - Cindy Aossey (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 4 and 5 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction, multiplication, division and place value (NBT and OA standards); the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 6 Sessions of the course.

Cost: \$300 per participant

Duration: 6 Sessions (2 in-person days & 4 half-day virtual sessions)

Location: Berea is in Madison County in Central Kentucky which is on Eastern Time

The 2 in-person days will meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Thursday, July 7, 2022; 9:00am-4:00pm (in-person day in Berea, KY)

Session 2: Friday, July 8, 2022; 9:00am-4:00pm (in-person day in Berea, KY)

Sessions 3 & 4: Wednesday, September 14, 2022; 9:00-noon & 1:00-4:00pm Eastern Time (2 half-day virtual sessions on one day)

Sessions 5 & 6: Wednesday, September 28, 2022; 9:00-noon & 1:00-4:00pm Eastern Time (2 half-day virtual sessions on one day)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Thursday, June 30, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

September 30, 2022

Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-2023)
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LOUISVILLE, KY****

LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

September 30, 2022

2022 KCM EQUITY CONFERENCE - In-Person in Louisville
Muhammad Ali Center
144 N 6th St
Louisville, KY 40202
09:00 AM - 01:00 PM EST
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu
2022 KCM EQUITY CONFERENCE

Please join the us for the 2022 KCM EQUITY CONFERENCE on Friday, September 30, 2022 in Louisville, Kentucky..

This professional learning event is IN PERSON only.

The 2022 KCM EQUITY CONFERENCE is a half-day program being curated by the KCM's Kentucky Math Teacher Leaders (KyMTLs) with an audience of mathematics constituents, educators, and district administrators from across the state of Kentucky. Our Keynote Speaker, Thomas Woods-Tucker, will share a message with the audience that addresses our conference theme: Equity for All.

Our panel of experts from various fields will share their knowledge on several topics that may include diversity, equity, culturally responsive teaching, and underrepresented learners (i.e. ECE, African American, Black, LGBTQ, Latinx) in mathematics education or education in general.

This event will conclude with a catered lunch.

Thomas Woods-Tucker, Ph. D. was named the Kentucky Department of Education's deputy commissioner and chief equity officer in the Office of Teaching and Learning in October 2020. He came to KDE from Douglas County Schools in Colorado, where he was the superintendent. Woods-Tucker previously has served in district leadership positions in Ohio, where he was named the 2016 American Association of School Administrators National Superintendent of the Year and the Buckeye Association of School Administrators State Superintendent of the Year. In 2013, he earned the National Alliance of Black School Educators National Superintendent of the Year Award. Originally from northeastern Arkansas, Woods-Tucker earned his doctorate in communications and higher education and a master's in educational administration from The Ohio State University. He received a bachelor's in English education from Philander Smith College (Little Rock, Ark.).

DATE: Friday, September 30, 2022

TIME: 9:00 am - 1:00 pm Eastern Time

LOCATION: Mohammed Ali Center in downtown Louisville

COST: FREE. This Conference is for Kentucky educators only

REGISTRATION CLOSE DATE: September 15, 2022

Please read the following before registering:

?Participants must register for this professional learning event in order to attend.

Registrants who are not already members of the KCM, will become members of the KCM and agree to receive emails from kcm@nku.edu and info@kentuckymathematics.org about upcoming KCM professional learning events.

Should you register for this 2022 KCM Equity Conference and then become unable to attend, please contact the KCM at 859-572-7690 or kcm@nku.edu to have your registration voided. Please - no "no shows". Thank you.

Anyone who successfully completes their registration will receive a registration confirmation email from the Kentucky Center for Mathematics. If you don't receive an email after registering, please check your junk or spam folders for it; if you still can't find it, please contact the KCM by phone to verify that you registration was completed and

your email address is correct.

October 5, 2022

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Dee Crescitelli (2022-23)
2 in-person days will meet in Louisville, KY; 2 virtual sessions will meet online via ZOOM
In-person days at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building
Louisville, KY 40222

In-person on Oct 6 & 7 = 9 am - 4 pm EST; Virtual on Dec 7 & 8 = 1-4 pm EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Leah Dix (2022-23)
Course Description:

Intermediate grades are a critical time in which students are expected to develop an understanding of fractions as numbers and make sense of fraction operations. During this 4-session course, teachers will explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks. Teachers will deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards for number and operation, seeing them as part of a progression starting in first grade and continuing into middle school. Participants will be provided with a variety of books and manipulatives.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days and 2 half-day virtual sessions)

Location:

In-person days = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building

Virtual Sessions = Online via ZOOM meetings

COURSE SCHEDULE:

Session 1: Wednesday, October 5, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Session 2: Thursday, October 6, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Sessions 3: Wednesday, December 7, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Session 4: Thursday, December 8, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Registration close date is Wednesday, September 7, 2022

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

October 6, 2022

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Dee Crescitelli (2022-23)
2 in-person days will meet in Louisville, KY; 2 virtual sessions will meet online via ZOOM
In-person days at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Bu
Louisville, KY 40222

In-person on Oct 6 & 7 = 9 am - 4 pm EST; Virtual on Dec 7 & 8 = 1-4 pm EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Leah Dix (2022-23)
Course Description:

Intermediate grades are a critical time in which students are expected to develop an understanding of fractions as numbers and make sense of fraction operations. During this 4-session course, teachers will explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks. Teachers will deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards for number and operation, seeing them as part of a progression starting in first grade and continuing into middle school. Participants will be provided with a variety of books and manipulatives.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days and 2 half-day virtual sessions)

Location:

In-person days = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building

Virtual Sessions = Online via ZOOM meetings

COURSE SCHEDULE:

Session 1: Wednesday, October 5, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Session 2: Thursday, October 6, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Sessions 3: Wednesday, December 7, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Session 4: Thursday, December 8, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Registration close date is Wednesday, September 7, 2022

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

October 12, 2022

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn strategies and acquire Culturally Responsive Teaching tools to embed in their classrooms.

Aligned to research-based teaching practices from Zaretta Hammond's Culturally Responsive Teaching and the Brain, NCTM's Catalyzing Change for High School, and KAS, participants will explore lesson tasks that include calculus, algebra, and geometry topics as well as, understand and create mathematics lessons for social justice.

Participants will receive books and instructional materials, and will be expected to attend all 6 sessions of the course.

Sessions will be fully virtual, after school, and start in October.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 half-day virtual sessions (2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, October 12, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 2: Thursday, October 13, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 3: Wednesday, October 19, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 4: Thursday, October 20, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 5: Wednesday, November 2, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 6: Thursday, November 3, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is August 31, 2022

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

October 13, 2022

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

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Sessions will be fully virtual, after school, and start in October.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 half-day virtual sessions (2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, October 12, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 2: Thursday, October 13, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 3: Wednesday, October 19, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 4: Thursday, October 20, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 5: Wednesday, November 2, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 6: Thursday, November 3, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is August 31, 2022

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

October 18, 2022

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny
2 half-day virtual sessions meet online via ZOOM; 2 in-person days meets in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

In-person on 9/13 & 10/18 = 9am-4pm CST; virtual on 11/9 & 11/10 = 12-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny Riedell (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 2 and 3 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction and place value from the NBT and OA standards; the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 4 Sessions of the course.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days & 2 half-day virtual sessions)

Location: Hopkinsville is in Christian County in Western Kentucky which is on Central Time

The 2 in-person days will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Tuesday, September 13, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 2: Tuesday, October 18, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 3: Wednesday, November 9, 2022; noon-3:00 pm Central Time (half-day virtual session)

Session 4: Thursday, November 10, 2022 noon-3:00 pm Central (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Tuesday, August 16, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

October 18, 2022

Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey & Dee C
1 in-person day in Louisville, KY; 4 virtual online sessions via ZOOM
The in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders
Louisville, KY 40222

In-person on 7/18 = 9am-4pm EST; all other virtual sessions = 4-5:30pm OR noon-3
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

*Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey
& Dee Crescitelli (2022-23)*

COURSE DESCRIPTION:

**This course is available only to educators in Kentucky*

This course provides an opportunity for classroom teachers of students in Grades 5 through 8 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards, this course will use instructional routines to give participants specific and repeatable designs for learning that support both the teacher and students in the classroom.

Reasoning routines for the middle grades are designed to improve student problem-solving, build crucial mathematical thinking habits, and improve classroom discourse.

Cost: FREE (open to only Kentucky math educators)

Duration:

PLEASE NOTE: There are two options for the virtual follow-up sessions. Participants can choose to attend four 90-minute virtual sessions that meet AFTER school hours from 4:00-5:30 pm Eastern, OR they can choose to attend two half-day virtual sessions that meet DURING school hours from noon-3pm Eastern. Please see the detailed schedules for Option 1 and Option 2 below.

OPTION 1: 5 Sessions (one in-person day and four 90-minute virtual sessions after school hours)

OPTION 2: 3 Sessions (one in-person day and two half-day virtual sessions during school hours)

Locations:

*1 in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building
Virtual sessions meet online via ZOOM*

**You must register to participate in this professional learning event. Registration deadline is July 8, 2022.*

BEFORE REGISTERING, PLEASE NOTE:

The virtual sessions are not recordings that can be watched at any other time. Participants must be able to participate via ZOOM on Tuesdays as scheduled from 4:00-5:30 pm EST for Option 1 or from noon-3:00 pm EST for Option 2; and participants must be able to attend in person in Louisville on Monday, July 18, 2022. During registration, you will select course schedule OPTION 1 or course schedule OPTION 2 when you select your registration package.

Course Schedule for OPTION 1:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 13, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 3: Tuesday, September 27, 2022; 4:00-5:30 pm Eastern Time (90 minute

virtual)

SESSION 4: Tuesday, October 18, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 5: Tuesday, November 1, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

Course Schedule for OPTION 2:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 27, 2022; noon-3:00 pm Eastern Time (half-day virtual)

SESSION 3: Tuesday, November 1, 2022; noon-3:00 pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

PLEASE NOTE: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

October 19, 2022

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn strategies and acquire Culturally Responsive Teaching tools to embed in their classrooms.

Aligned to research-based teaching practices from Zaretta Hammond's Culturally Responsive Teaching and the Brain, NCTM's Catalyzing Change for High School, and KAS, participants will explore lesson tasks that include calculus, algebra, and geometry topics as well as, understand and create mathematics lessons for social justice.

Participants will receive books and instructional materials, and will be expected to attend all 6 sessions of the course.

Sessions will be fully virtual, after school, and start in October.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 half-day virtual sessions (2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, October 12, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 2: Thursday, October 13, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 3: Wednesday, October 19, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 4: Thursday, October 20, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 5: Wednesday, November 2, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 6: Thursday, November 3, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is August 31, 2022

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

October 19, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

virtual sessions in Sept = noon-3pm EST; in-person on 10/19 & 11/16 = 9am-4pm ES

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Tuesday, September 13, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 2: Wednesday, September 14, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Tuesday, September 27, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Wednesday, September 28, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, October 19, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 6: Wednesday, November 16, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 16, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money,

Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

October 20, 2022

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn strategies and acquire Culturally Responsive Teaching tools to embed in their classrooms.

Aligned to research-based teaching practices from Zaretta Hammond's Culturally Responsive Teaching and the Brain, NCTM's Catalyzing Change for High School, and KAS, participants will explore lesson tasks that include calculus, algebra, and geometry topics as well as, understand and create mathematics lessons for social justice.

Participants will receive books and instructional materials, and will be expected to attend all 6 sessions of the course.

Sessions will be fully virtual, after school, and start in October.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 half-day virtual sessions (2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, October 12, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 2: Thursday, October 13, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 3: Wednesday, October 19, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 4: Thursday, October 20, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 5: Wednesday, November 2, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 6: Thursday, November 3, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is August 31, 2022

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

October 21, 2022

AVMR PLUS: PART 1 (Virtual AVMR1 with bonus in-person day) -Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

In Person = Hilton Downtown Lexington

Lexington , KY 40507

Sessions 1&2, 3&4 and 5&6=9am-3:30 pm; Sessions 7&8=12-2 pm; Session 9=9am-4pm E

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR PLUS?: PART 1

Course Description:

Participants in KCM's AVMR PLUS: PART 1 will complete Add+Vantage Math Recovery (AVMR™) Course 1 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include identifying numerals, counting, addition, and subtraction.

AVMR PLUS: PART 1 is the first part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

After AVMR PLUS: PART 1, participants can choose to continue their learning with AVMR PLUS: PART 2 which includes Add+Vantage Math Recovery (AVMR™) Courses 2 and another bonus KCM-designed in-person day. Topics covered in AVMR PLUS: Part 2 include place value, multi-digit addition & subtraction, and multiplication & division. Participants must register for AVMR PLUS: PART 2 separately.

COST OF AVMR PLUS: PART 1: \$500 per participant

DURATION: 8 virtual sessions plus one bonus in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session. On days where the schedule consists of 2 two-hour virtual sessions, participants will have a 2.5-hour break between sessions to allow time for lunch and one hour of independent work.

SCHEDULE FOR AVMR PLUS: PART 1:

Sessions 1 & 2: Friday, July 15, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 3 & 4: Friday, July 22, 2022; 9:00am-3:30pm Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Sessions 5 & 6: Friday, July 29, 2022; 9:00am-3:30 Eastern Time (2 two-hour VIRTUAL sessions w/lunch break)

Session 7: Friday, September 9, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 8: Friday, September 16, 2022; noon-2:00pm Eastern Time (single two-hour VIRTUAL session)

Session 9: Friday October 21, 2022; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is May 27, 2022.*

The KCM needs a minimum of 7 weeks to order and receive the AVMR1 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

The Kentucky Center for Mathematics' AVMR PLUS: PART 2 begins November 2, 2022, and is currently open for registrations. Participants must register for AVMR PLUS: PART 2 separately and must complete AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1 in order to attend AVMR PLUS:

PART 2.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

October 25, 2022

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM

**In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville , KY 40222**

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

THIS COURSE IS FULL. Please click here to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning

Elementary and Middle School Mathematics Teaching Developmentally, 10th edition

Building Powerful Numeracy for Middle School & High School Students

Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building

8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

October 25, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

virtual sessions in Sept & Oct = noon-3pm CST; in-person on 11/15 & 12/6 = 9am-4
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, September 20, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 2: Wednesday, September 21, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Tuesday, October 25, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Wednesday, October 26, 2022: noon-3:00pm Central Time. (VIRTUAL)

Session 5: Tuesday, November 15, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 6: Tuesday, December 6, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 23, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades

K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money, Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

October 26, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

virtual sessions in Sept & Oct = noon-3pm CST; in-person on 11/15 & 12/6 = 9am-4
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, September 20, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 2: Wednesday, September 21, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Tuesday, October 25, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Wednesday, October 26, 2022: noon-3:00pm Central Time. (VIRTUAL)

Session 5: Tuesday, November 15, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 6: Tuesday, December 6, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 23, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades

K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money, Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

October 28, 2022

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

November 1, 2022

Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey & Dee C
1 in-person day in Louisville, KY; 4 virtual online sessions via ZOOM
The in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders
Louisville, KY 40222

In-person on 7/18 = 9am-4pm EST; all other virtual sessions = 4-5:30pm OR noon-3
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

*Routines for Reasoning: Middle Grades (5-8) - HYBRID, Louisville, KY - Cindy Aossey
& Dee Crescitelli (2022-23)*

COURSE DESCRIPTION:

**This course is available only to educators in Kentucky*

This course provides an opportunity for classroom teachers of students in Grades 5 through 8 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards, this course will use instructional routines to give participants specific and repeatable designs for learning that support both the teacher and students in the classroom.

Reasoning routines for the middle grades are designed to improve student problem-solving, build crucial mathematical thinking habits, and improve classroom discourse.

Cost: FREE (open to only Kentucky math educators)

Duration:

PLEASE NOTE: There are two options for the virtual follow-up sessions. Participants can choose to attend four 90-minute virtual sessions that meet AFTER school hours from 4:00-5:30 pm Eastern, OR they can choose to attend two half-day virtual sessions that meet DURING school hours from noon-3pm Eastern. Please see the detailed schedules for Option 1 and Option 2 below.

OPTION 1: 5 Sessions (one in-person day and four 90-minute virtual sessions after school hours)

OPTION 2: 3 Sessions (one in-person day and two half-day virtual sessions during school hours)

Locations:

1 in-person day meets at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building

Virtual sessions meet online via ZOOM

**You must register to participate in this professional learning event. Registration deadline is July 8, 2022.*

BEFORE REGISTERING, PLEASE NOTE:

The virtual sessions are not recordings that can be watched at any other time. Participants must be able to participate via ZOOM on Tuesdays as scheduled from 4:00-5:30 pm EST for Option 1 or from noon-3:00 pm EST for Option 2; and participants must be able to attend in person in Louisville on Monday, July 18, 2022. During registration, you will select course schedule OPTION 1 or course schedule OPTION 2 when you select your registration package.

Course Schedule for OPTION 1:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 13, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 3: Tuesday, September 27, 2022; 4:00-5:30 pm Eastern Time (90 minute

virtual)

SESSION 4: Tuesday, October 18, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

SESSION 5: Tuesday, November 1, 2022; 4:00-5:30 pm Eastern Time (90 minute virtual)

Course Schedule for OPTION 2:

SESSION 1: Monday, July 18, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville, KY)

SESSION 2: Tuesday, September 27, 2022; noon-3:00 pm Eastern Time (half-day virtual)

SESSION 3: Tuesday, November 1, 2022; noon-3:00 pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

PLEASE NOTE: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

November 2, 2022

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

November 2, 2022

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn strategies and acquire Culturally Responsive Teaching tools to embed in their classrooms.

Aligned to research-based teaching practices from Zaretta Hammond's Culturally Responsive Teaching and the Brain, NCTM's Catalyzing Change for High School, and KAS, participants will explore lesson tasks that include calculus, algebra, and geometry topics as well as, understand and create mathematics lessons for social justice.

Participants will receive books and instructional materials, and will be expected to attend all 6 sessions of the course.

Sessions will be fully virtual, after school, and start in October.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 half-day virtual sessions (2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, October 12, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 2: Thursday, October 13, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 3: Wednesday, October 19, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 4: Thursday, October 20, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 5: Wednesday, November 2, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 6: Thursday, November 3, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is August 31, 2022

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

November 2, 2022

Math Fact Fluency - HYBRID COURSE - Hopkinsville, KY - Bonny Riedell (2022-23)
IN-PERSON days meet in Hopkinsville, KY; VIRTUAL half-day sessions meet online via live ZOOM meeti
IN-PERSON = Bruce Convention Center
Hopkinsville, KY 42240

Virtual on 9/8 & 12/8 = 12-3 pm CST; In-person on 9/28 & 11/2 = 9am-4pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: Hopkinsville, KY (Western Kentucky - Christian County = Central Time Zone)

The 2 In-person days meet at The Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day Virtual Sessions meet online via live ZOOM meetings

SCHEDULE:

Session 1: Thursday, September 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Session 2: Wednesday, September 28, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 3: Wednesday, November 2, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 4: Thursday, December 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Please Note: This cohort meets during Central Time. If you live and/or work in an Eastern Time Zone, know that 12-3pm Central Time is 1-4pm Eastern Time, and 9am-4pm Central Time is 10am-5pm Eastern Time.

Registration cutoff date is August 11, 2022

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

November 3, 2022

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Culturally Responsive Teaching and High School Mathematics - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn strategies and acquire Culturally Responsive Teaching tools to embed in their classrooms.

Aligned to research-based teaching practices from Zaretta Hammond's Culturally Responsive Teaching and the Brain, NCTM's Catalyzing Change for High School, and KAS, participants will explore lesson tasks that include calculus, algebra, and geometry topics as well as, understand and create mathematics lessons for social justice.

Participants will receive books and instructional materials, and will be expected to attend all 6 sessions of the course.

Sessions will be fully virtual, after school, and start in October.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 half-day virtual sessions (2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, October 12, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 2: Thursday, October 13, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 3: Wednesday, October 19, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 4: Thursday, October 20, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 5: Wednesday, November 2, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

SESSION 6: Thursday, November 3, 2022; 4:15-6:15pm Eastern Time (half-day virtual)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is August 31, 2022

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

November 4, 2022

**Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222**

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM
EASTERN TIME IN LOUISVILLE, KY****

*LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst
Campus, Founders Union Building: Room 15*

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

November 4, 2022

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

November 9, 2022

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny
2 half-day virtual sessions meet online via ZOOM; 2 in-person days meets in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

In-person on 9/13 & 10/18 = 9am-4pm CST; virtual on 11/9 & 11/10 = 12-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny Riedell (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 2 and 3 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction and place value from the NBT and OA standards; the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 4 Sessions of the course.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days & 2 half-day virtual sessions)

Location: Hopkinsville is in Christian County in Western Kentucky which is on Central Time

The 2 in-person days will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Tuesday, September 13, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 2: Tuesday, October 18, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 3: Wednesday, November 9, 2022; noon-3:00 pm Central Time (half-day virtual session)

Session 4: Thursday, November 10, 2022 noon-3:00 pm Central (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Tuesday, August 16, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

November 10, 2022

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny
2 half-day virtual sessions meet online via ZOOM; 2 in-person days meets in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

In-person on 9/13 & 10/18 = 9am-4pm CST; virtual on 11/9 & 11/10 = 12-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in Number Talks & Routines Grades 2 and 3 - HYBRID, Hopkinsville, KY - Bonny Riedell (2022-23)

Course Description:

This course provides an opportunity for classroom teachers of students in Grades 2 and 3 to learn strategies and acquire tools to advance students' mathematical reasoning.

Aligned to research-based teaching practices and the Kentucky Academic Standards for Mathematics, topics will include addition, subtraction and place value from the NBT and OA standards; the use of instructional routines including number talks; and the use of manipulatives, visual models and number lines.

Participants will receive books, activities and instructional materials including a classroom number line.

Participants are expected to attend all 4 Sessions of the course.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days & 2 half-day virtual sessions)

Location: Hopkinsville is in Christian County in Western Kentucky which is on Central Time

The 2 in-person days will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day virtual sessions will meet online via live ZOOM meetings.

COURSE SCHEDULE:

Session 1: Tuesday, September 13, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 2: Tuesday, October 18, 2022; 9:00am-4:00pm Central Time (in-person day in Hopkinsville, KY)

Session 3: Wednesday, November 9, 2022; noon-3:00 pm Central Time (half-day virtual session)

Session 4: Thursday, November 10, 2022 noon-3:00 pm Central (half-day virtual session)

**The virtual sessions are live and interactive ZOOM meetings. They are NOT recorded sessions to be watched at any other time. Participants must be able to meet virtually and in-person per the course schedule above.*

Registration close date is Tuesday, August 16, 2022.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

November 15, 2022

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM

**In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville, KY 40222**

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST
Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

THIS COURSE IS FULL. Please click here to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning

Elementary and Middle School Mathematics Teaching Developmentally, 10th edition

Building Powerful Numeracy for Middle School & High School Students

Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

*2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center,
ShelbyHurst Campus, Founders Union Building*

8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

November 15, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

virtual sessions in Sept & Oct = noon-3pm CST; in-person on 11/15 & 12/6 = 9am-4
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, September 20, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 2: Wednesday, September 21, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Tuesday, October 25, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Wednesday, October 26, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Tuesday, November 15, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 6: Tuesday, December 6, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 23, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades

K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money, Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

November 16, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

virtual sessions in Sept = noon-3pm EST; in-person on 10/19 & 11/16 = 9am-4pm ES

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Tuesday, September 13, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 2: Wednesday, September 14, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Tuesday, September 27, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Wednesday, September 28, 2022; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, October 19, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 6: Wednesday, November 16, 2022, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 16, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money,

Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

November 16, 2022

Explorations in 4th & 5th Grade Fractions - HYBRID, Berea, KY - Cindy Aossey (2022-23)

2 in-person days will meet in Berea, KY; 2 virtual sessions will meet online via ZOOM

In-Person Days meet at the Historic Boone Tavern Hotel

Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*Explorations in 4th & 5th Grade Fractions - HYBRID, Berea, KY - Cindy Aossey
(2022-23)*

Course Description:

Intermediate grades are a critical time in which students are expected to develop an understanding of fractions as numbers and make sense of fraction operations.

During this 4-session course, teachers will explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks.

Teachers will deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards for number and operation, seeing them as part of a progression starting in first grade and continuing into middle school.

Participants will be provided with a variety of books and manipulatives.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days and 2 half-day virtual sessions)

Location: Berea, KY (Berea is in Madison County in Central Kentucky which is on Eastern Time)

In-Person Days meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

COURSE SCHEDULE:

Session 1: Wednesday, November 16, 2022; 9:00am-4:00 pm Eastern Time (in-person day)

Session 2: Thursday, November 17, 2022; 9:00am-4:00 pm Eastern Time (in-person day)

Sessions 3 & 4: Thursday, January 26, 2023; 9:00am - noon AND 1:00-4:00 pm Eastern Time (2 VIRTUAL sessions on 1 DAY)

Registration close date is Wednesday, October 19, 2022

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

November 17, 2022

Explorations in 4th & 5th Grade Fractions - HYBRID, Berea, KY - Cindy Aossey (2022-23)

2 in-person days will meet in Berea, KY; 2 virtual sessions will meet online via ZOOM

In-Person Days meet at the Historic Boone Tavern Hotel

Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in 4th & 5th Grade Fractions - HYBRID, Berea, KY - Cindy Aossey (2022-23)

Course Description:

Intermediate grades are a critical time in which students are expected to develop an understanding of fractions as numbers and make sense of fraction operations.

During this 4-session course, teachers will explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks.

Teachers will deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards for number and operation, seeing them as part of a progression starting in first grade and continuing into middle school.

Participants will be provided with a variety of books and manipulatives.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days and 2 half-day virtual sessions)

Location: Berea, KY (Berea is in Madison County in Central Kentucky which is on Eastern Time)

In-Person Days meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

COURSE SCHEDULE:

Session 1: Wednesday, November 16, 2022; 9:00am-4:00 pm Eastern Time (in-person day)

Session 2: Thursday, November 17, 2022; 9:00am-4:00 pm Eastern Time (in-person day)

Sessions 3 & 4: Thursday, January 26, 2023; 9:00am - noon AND 1:00-4:00 pm Eastern Time (2 VIRTUAL sessions on 1 DAY)

Registration close date is Wednesday, October 19, 2022

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

November 18, 2022

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

December 2, 2022

**Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222**

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM
EASTERN TIME IN LOUISVILLE, KY****

LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

December 6, 2022

Comprehensive Course for Primary K-2: PART 1 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

virtual sessions in Sept & Oct = noon-3pm CST; in-person on 11/15 & 12/6 = 9am-4
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 1

Course Description:

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include counting and cardinality, number and operations in base ten, conceptual place value, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 1 Big Ideas = Mathematical Fluency & Number Sense and Computational Fluency to 100

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, September 20, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 2: Wednesday, September 21, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Tuesday, October 25, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Wednesday, October 26, 2022; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Tuesday, November 15, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 6: Tuesday, December 6, 2022, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Tuesday, August 23, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

In 2023, The KCM is offering Part 2 of this Comprehensive Course for Primary Grades

K-2 training. Participants wishing to attend Part 2 must have completed this Part 1 training in 2022. The BIG IDEAS covered in Part 2 will be Measurement, Time & Money, Algebraic Reasoning & Problem Solving, and Math Fact Fluency. Please visit our website to register for Comprehensive Course for Primary Grades K-2 PART 2.

December 7, 2022

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

December 7, 2022

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Dee Crescitelli (2022-23)
2 in-person days will meet in Louisville, KY; 2 virtual sessions will meet online via ZOOM
In-person days at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Bu
Louisville, KY 40222

In-person on Oct 6 & 7 = 9 am - 4 pm EST; Virtual on Dec 7 & 8 = 1-4 pm EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Leah Dix (2022-23)
Course Description:

Intermediate grades are a critical time in which students are expected to develop an understanding of fractions as numbers and make sense of fraction operations. During this 4-session course, teachers will explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks. Teachers will deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards for number and operation, seeing them as part of a progression starting in first grade and continuing into middle school. Participants will be provided with a variety of books and manipulatives.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days and 2 half-day virtual sessions)

Location:

In-person days = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building

Virtual Sessions = Online via ZOOM meetings

COURSE SCHEDULE:

Session 1: Wednesday, October 5, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Session 2: Thursday, October 6, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Sessions 3: Wednesday, December 7, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Session 4: Thursday, December 8, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Registration close date is Wednesday, September 7, 2022

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

December 8, 2022

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Dee Crescitelli (2022-23)
2 in-person days will meet in Louisville, KY; 2 virtual sessions will meet online via ZOOM
In-person days at University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Bu
Louisville, KY 40222

In-person on Oct 6 & 7 = 9 am - 4 pm EST; Virtual on Dec 7 & 8 = 1-4 pm EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Explorations in 4th & 5th Grade Fractions - HYBRID, Louisville KY - Leah Dix (2022-23)
Course Description:

Intermediate grades are a critical time in which students are expected to develop an understanding of fractions as numbers and make sense of fraction operations. During this 4-session course, teachers will explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks. Teachers will deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards for number and operation, seeing them as part of a progression starting in first grade and continuing into middle school. Participants will be provided with a variety of books and manipulatives.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days and 2 half-day virtual sessions)

Location:

In-person days = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building

Virtual Sessions = Online via ZOOM meetings

COURSE SCHEDULE:

Session 1: Wednesday, October 5, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Session 2: Thursday, October 6, 2022; 9:00am-4:00 pm Eastern Time (IN-PERSON DAY)

Sessions 3: Wednesday, December 7, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Session 4: Thursday, December 8, 2022; 1:00-4:00 pm Eastern Time (VIRTUAL session)

Registration close date is Wednesday, September 7, 2022

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

December 8, 2022

Math Fact Fluency - HYBRID COURSE - Hopkinsville, KY - Bonny Riedell (2022-23)
IN-PERSON days meet in Hopkinsville, KY; VIRTUAL half-day sessions meet online via live ZOOM meeti
IN-PERSON = Bruce Convention Center
Hopkinsville, KY 42240

Virtual on 9/8 & 12/8 = 12-3 pm CST; In-person on 9/28 & 11/2 = 9am-4pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

MATH FACT FLUENCY - HYBRID COURSE (2022-23)

Course Description:

This KCM professional learning event is for KENTUCKY mathematics educators only.

Fluency in the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students.

Providing rich experiences founded in research is necessary to provide access and equity for all students.

This course provides participants with routines, games, and assessments to lower student anxiety and increase agency.

Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency Games and the materials needed to play them, along with strategies they can implement right away.

Cost: \$100

Duration: 2 in-person days & 2 half-day virtual ZOOM meetings

Location: Hopkinsville, KY (Western Kentucky - Christian County = Central Time Zone)
The 2 In-person days meet at The Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

The 2 half-day Virtual Sessions meet online via live ZOOM meetings

SCHEDULE:

Session 1: Thursday, September 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Session 2: Wednesday, September 28, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 3: Wednesday, November 2, 2022; 9:00 am - 4:00 pm Central Time (1 in-person day)

Session 4: Thursday, December 8, 2022; noon - 3:00 pm Central Time (1 half-day virtual ZOOM meeting)

Before registering, please make sure that you are able to fully participate in all 4 sessions as scheduled - 2 in-person and 2 virtual.

Please Note: This cohort meets during Central Time. If you live and/or work in an Eastern Time Zone, know that 12-3pm Central Time is 1-4pm Eastern Time, and 9am-4pm Central Time is 10am-5pm Eastern Time.

Registration cutoff date is August 11, 2022

Registration fee is non-refundable once materials have been ordered. If you register and then will be unable to attend, contact the KCM at kcm@nku.edu or 859-572-7690.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

December 9, 2022

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

December 13, 2022

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM
In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville , KY 40222

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

THIS COURSE IS FULL. Please click [here](#) to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning
Elementary and Middle School Mathematics Teaching Developmentally, 10th edition
Building Powerful Numeracy for Middle School & High School Students
Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building
8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

December 14, 2022

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn, understand, apply the modeling process as well as the standards for mathematical practice for students.

Participants will explore lesson tasks that include algebra and statistics topics as well as create high yield tasks that incorporate student mathematical practice for modeling.

Participants will digital materials and will be expected to attend all 6 sessions of this course.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 three-hour sessions (Each session is 2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, December 14, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 2: Thursday, December 15, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 3: Wednesday, January 11, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 4: Thursday, January 12, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 5: Wednesday, February 1, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 6: Thursday, February 2, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

December 15, 2022

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn, understand, apply the modeling process as well as the standards for mathematical practice for students.

Participants will explore lesson tasks that include algebra and statistics topics as well as create high yield tasks that incorporate student mathematical practice for modeling.

Participants will digital materials and will be expected to attend all 6 sessions of this course.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 three-hour sessions (Each session is 2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, December 14, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 2: Thursday, December 15, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 3: Wednesday, January 11, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 4: Thursday, January 12, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 5: Wednesday, February 1, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 6: Thursday, February 2, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

December 16, 2022

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

January 5, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

January 6, 2023

Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-2023)
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LOUISVILLE, KY****

LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

January 6, 2023

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

* Implementation of participant's 1st Family Math Night to occur before December 31, 2022.

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

* Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

January 10, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

in-person on 1/10 & 3/21 = 9am-4pm CST; virtual in Jan & Feb = noon-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, January 10, 2023; 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 2: Tuesday, January 31, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Wednesday, February 1, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Tuesday, February 21, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Wednesday, February 22, 2023, noon-3:00pm Central Time. (VIRTUAL)

Session 6: Tuesday, March 21, 2023, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their

place and notify the KCM at kcm@nku.edu or 859-572-7690.

January 11, 2023

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn, understand, apply the modeling process as well as the standards for mathematical practice for students.

Participants will explore lesson tasks that include algebra and statistics topics as well as create high yield tasks that incorporate student mathematical practice for modeling.

Participants will digital materials and will be expected to attend all 6 sessions of this course.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 three-hour sessions (Each session is 2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, December 14, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 2: Thursday, December 15, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 3: Wednesday, January 11, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 4: Thursday, January 12, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 5: Wednesday, February 1, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 6: Thursday, February 2, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

In-person on 1/11 & 3/28 = 9am-4pm EST; virtual sessions in Feb = noon-3pm EST

Kentucky Center of Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Wednesday, January 11, 2023; 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 2: Tuesday, February 7, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Wednesday, February 8, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Tuesday, February 28, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, March 1, 2023, noon-3:00pm Eastern Time. (VIRTUAL)

Session 6: Tuesday, March 28, 2023, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

January 12, 2023

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn, understand, apply the modeling process as well as the standards for mathematical practice for students.

Participants will explore lesson tasks that include algebra and statistics topics as well as create high yield tasks that incorporate student mathematical practice for modeling.

Participants will digital materials and will be expected to attend all 6 sessions of this course.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 three-hour sessions (Each session is 2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, December 14, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 2: Thursday, December 15, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 3: Wednesday, January 11, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 4: Thursday, January 12, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 5: Wednesday, February 1, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 6: Thursday, February 2, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

January 12, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

January 18, 2023

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

January 19, 2023

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Virtual ZOOM meetings

03:45 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Course Description:

Modeling with mathematics is one of the most misunderstood Standards for Mathematical Practice, yet it is essential for ALL students to master. Participants of this course will

experience an instructional routine that builds students' capacity to make sense of models and to develop questions to ask themselves when modeling.

learn about designs for interaction that build opportunities for students to develop mathematical language and process the ideas and concepts of modeling.

PLEASE NOTE:

Participants who teach in Kentucky will receive a copy of the book Teaching for Thinking.

Participants who teach outside of Kentucky will need to purchase their own copy of Teaching for Thinking if they wish to participate in this course.

Cost: FREE

Duration: 4 half-day virtual sessions

Please note: This professional learning event will meet virtually via 4 half-day ZOOM meeting sessions on select Thursdays in 2023 from 3:45 - 6:30 pm EST. Teachers must be able to fully participate in all 4 live and interactive ZOOM meeting sessions as scheduled. Sessions are not recorded to be watched at any time.

SCHEDULE:

SESSION 1: Thursday, January 19, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 2: Thursday, February 9, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 3: Thursday, March 2, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 4: Thursday, March 23, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

Teachers must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another teacher.

January 19, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

January 20, 2023

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

January 20, 2023

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

* Implementation of participant's 1st Family Math Night to occur before December 31, 2022.

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

* Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

January 24, 2023

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM

**In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville , KY 40222**

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

THIS COURSE IS FULL. Please click [here](#) to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning

Elementary and Middle School Mathematics Teaching Developmentally, 10th edition

Building Powerful Numeracy for Middle School & High School Students

Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

*2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center,
ShelbyHurst Campus, Founders Union Building*

8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

January 25, 2023

Explorations in 3rd Grade Fractions - In-person, Lexington, KY - Julie Adams (2022-23)

In-person in Lexington, KY

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in 3rd Grade Fractions - In-person, Lexington, KY - Julie Adams (2022-23)

Course Description:

Grade 3 is a critical year in which students should develop strong conceptual foundations for understanding fractions.

During this 1-day training course, teachers will explore hands-on activities and tasks aligned to the Kentucky Academic Standards for Mathematics designed to support students in developing conceptual understandings of fractions as numbers.

Teachers will deepen their understanding of the third grade fractions standards, seeing them as part of a progression starting in first grade and continuing into middle school.

Participants will receive prepared materials and manipulatives, including fraction squares, Cuisenaire rods and KNP-IG activities.

Cost: \$100 per participant

Duration: 1 in-person day

Location: Lexington, KY

COURSE SCHEDULE:

Wednesday, January 25, 2023; 9:00am-4:00 pm Eastern Time (1 in-person day)

Registration close date is Wednesday, January 4, 2023.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

January 26, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

January 26, 2023

Explorations in 4th & 5th Grade Fractions - HYBRID, Berea, KY - Cindy Aossey (2022-23)

2 in-person days will meet in Berea, KY; 2 virtual sessions will meet online via ZOOM

In-Person Days meet at the Historic Boone Tavern Hotel

Berea, KY 40403

09:00 AM - 04:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*Explorations in 4th & 5th Grade Fractions - HYBRID, Berea, KY - Cindy Aossey
(2022-23)*

Course Description:

Intermediate grades are a critical time in which students are expected to develop an understanding of fractions as numbers and make sense of fraction operations.

During this 4-session course, teachers will explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks.

Teachers will deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards for number and operation, seeing them as part of a progression starting in first grade and continuing into middle school.

Participants will be provided with a variety of books and manipulatives.

Cost: \$200 per participant

Duration: 4 Sessions (2 in-person days and 2 half-day virtual sessions)

Location: Berea, KY (Berea is in Madison County in Central Kentucky which is on Eastern Time)

In-Person Days meet at the Historic Boone Tavern Hotel, 100 S Main St North, Berea, KY 40403

COURSE SCHEDULE:

Session 1: Wednesday, November 16, 2022; 9:00am-4:00 pm Eastern Time (in-person day)

Session 2: Thursday, November 17, 2022; 9:00am-4:00 pm Eastern Time (in-person day)

Sessions 3 & 4: Thursday, January 26, 2023; 9:00am - noon AND 1:00-4:00 pm Eastern Time (2 VIRTUAL sessions on 1 DAY)

Registration close date is Wednesday, October 19, 2022

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

January 31, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

in-person on 1/10 & 3/21 = 9am-4pm CST; virtual in Jan & Feb = noon-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, January 10, 2023; 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 2: Tuesday, January 31, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Wednesday, February 1, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Tuesday, February 21, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Wednesday, February 22, 2023, noon-3:00pm Central Time. (VIRTUAL)

Session 6: Tuesday, March 21, 2023, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their

place and notify the KCM at kcm@nku.edu or 859-572-7690.

February 1, 2023

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn, understand, apply the modeling process as well as the standards for mathematical practice for students.

Participants will explore lesson tasks that include algebra and statistics topics as well as create high yield tasks that incorporate student mathematical practice for modeling.

Participants will digital materials and will be expected to attend all 6 sessions of this course.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 three-hour sessions (Each session is 2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, December 14, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 2: Thursday, December 15, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 3: Wednesday, January 11, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 4: Thursday, January 12, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 5: Wednesday, February 1, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 6: Thursday, February 2, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

February 1, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

in-person on 1/10 & 3/21 = 9am-4pm CST; virtual in Jan & Feb = noon-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, January 10, 2023; 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 2: Tuesday, January 31, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Wednesday, February 1, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Tuesday, February 21, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Wednesday, February 22, 2023, noon-3:00pm Central Time. (VIRTUAL)

Session 6: Tuesday, March 21, 2023, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their

place and notify the KCM at kcm@nku.edu or 859-572-7690.

February 2, 2023

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Virtual ZOOM meetings

04:15 PM - 06:15 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

High School Modeling - VIRTUAL - Leah Dix (2022-23)

Course Description:

PLEASE NOTE: This free KCM professional development course is open to Kentucky Educators only

This course provides an opportunity for classroom teachers of students in Grades 9-12 to learn, understand, apply the modeling process as well as the standards for mathematical practice for students.

Participants will explore lesson tasks that include algebra and statistics topics as well as create high yield tasks that incorporate student mathematical practice for modeling.

Participants will digital materials and will be expected to attend all 6 sessions of this course.

Participants must be able to fully participate in all six live and interactive sessions that will meet via ZOOM. These sessions are not recorded to be watched at any other time.

KCM attendance certificates will be emailed to each participant.

Cost: FREE (For Kentucky Educators only)

Duration: 6 three-hour sessions (Each session is 2-hour synchronous with 1-hour asynchronous work)

Course Schedule:

SESSION 1: Wednesday, December 14, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 2: Thursday, December 15, 2022; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 3: Wednesday, January 11, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 4: Thursday, January 12, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 5: Wednesday, February 1, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

SESSION 6: Thursday, February 2, 2023; 4:15-6:15pm Eastern Time (2-hour synchronous with 1-hour asynchronous work)

Kentucky Mathematics Educators must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another Kentucky teacher. Thank you.

February 2, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

February 3, 2023

Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-2023)
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LOUISVILLE, KY****

LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

* Implementation of participant's 1st Family Math Night to occur before December 31, 2022.

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

* Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

February 7, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

In-person on 1/11 & 3/28 = 9am-4pm EST; virtual sessions in Feb = noon-3pm EST

Kentucky Center of Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Wednesday, January 11, 2023; 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 2: Tuesday, February 7, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Wednesday, February 8, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Tuesday, February 28, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, March 1, 2023, noon-3:00pm Eastern Time. (VIRTUAL)

Session 6: Tuesday, March 28, 2023, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

February 8, 2023

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

In-person on 1/11 & 3/28 = 9am-4pm EST; virtual sessions in Feb = noon-3pm EST

Kentucky Center of Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Wednesday, January 11, 2023; 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 2: Tuesday, February 7, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Wednesday, February 8, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Tuesday, February 28, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, March 1, 2023, noon-3:00pm Eastern Time. (VIRTUAL)

Session 6: Tuesday, March 28, 2023, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

February 9, 2023

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Virtual ZOOM meetings

03:45 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Course Description:

Modeling with mathematics is one of the most misunderstood Standards for Mathematical Practice, yet it is essential for ALL students to master. Participants of this course will

experience an instructional routine that builds students' capacity to make sense of models and to develop questions to ask themselves when modeling.

learn about designs for interaction that build opportunities for students to develop mathematical language and process the ideas and concepts of modeling.

PLEASE NOTE:

Participants who teach in Kentucky will receive a copy of the book Teaching for Thinking.

Participants who teach outside of Kentucky will need to purchase their own copy of Teaching for Thinking if they wish to participate in this course.

Cost: FREE

Duration: 4 half-day virtual sessions

Please note: This professional learning event will meet virtually via 4 half-day ZOOM meeting sessions on select Thursdays in 2023 from 3:45 - 6:30 pm EST. Teachers must be able to fully participate in all 4 live and interactive ZOOM meeting sessions as scheduled. Sessions are not recorded to be watched at any time.

SCHEDULE:

SESSION 1: Thursday, January 19, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 2: Thursday, February 9, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 3: Thursday, March 2, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 4: Thursday, March 23, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

Teachers must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another teacher.

February 9, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

February 10, 2023

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

February 15, 2023

Statistics as a Progression - VIRTUAL - Dee Crescitelli & Bonny Riedell (2022-23)

Virtual sessions via ZOOM

12:00 PM - 03:00 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Statistics as a Progression

This professional learning event is open to any teacher. The intended audience for this course is 2nd through 6th Grade teachers.

COURSE DESCRIPTION:

Statistics is gaining recognition as an important component of mathematics education, from the primary grades to middle and high school continuing to post-secondary.

During this course, participants will deepen their understanding of statistics and see the standards and skills of their grade level as part of a progression starting in primary and continuing into middle and high school.

Essential statistics standards in the Kentucky Academic Standards for Mathematics begin in first grade and continue through all grade levels with the goal of developing student ability to comprehend and deal with variability and statistical information in the world around them and participate effectively in an information-laden society.

The KCAS- Mathematics also position students as doers of statistics as they take part in the production, interpretation, and communication of data.

Participants will explore instructional strategies for developing statistical understanding and receive virtual resources for use with students.

Cost: FREE

Duration: 2 half-day sessions

2023 SCHEDULE:

Session 1: Wednesday, February 15, 2023; noon - 3:00 pm Eastern Time (which is 11am - 2 pm Central Time)

Session 2: Wednesday, March 15, 2023; noon - 3:00 pm Eastern Time (which is 11 am - 2 pm Central Time)

Please note: Participants must be able to participate in both sessions during the dates and times listed. These are live and interactive ZOOM meetings. They are not recordings that can be watched at other times.

Registration deadline is February 8, 2023.

Please contact the KCM at kcm@nku.edu or 859-572-7690 if you have any questions, or if you register and then are no longer able to attend. Thank you.

February 16, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

February 17, 2023

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

February 21, 2023

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM

**In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville , KY 40222**

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST
Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

THIS COURSE IS FULL. Please click here to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning

Elementary and Middle School Mathematics Teaching Developmentally, 10th edition

Building Powerful Numeracy for Middle School & High School Students

Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

*2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center,
ShelbyHurst Campus, Founders Union Building*

8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

February 21, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

in-person on 1/10 & 3/21 = 9am-4pm CST; virtual in Jan & Feb = noon-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, January 10, 2023; 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 2: Tuesday, January 31, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Wednesday, February 1, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Tuesday, February 21, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Wednesday, February 22, 2023, noon-3:00pm Central Time. (VIRTUAL)

Session 6: Tuesday, March 21, 2023, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their

place and notify the KCM at kcm@nku.edu or 859-572-7690.

February 22, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Hopkinsville, KY - Bonny Riedell (
4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY
IN-PERSON = The Bruce Convention Center
Hopkinsville, KY 42240

in-person on 1/10 & 3/21 = 9am-4pm CST; virtual in Jan & Feb = noon-3pm CST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, January 10, 2023; 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 2: Tuesday, January 31, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Wednesday, February 1, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Tuesday, February 21, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Wednesday, February 22, 2023, noon-3:00pm Central Time. (VIRTUAL)

Session 6: Tuesday, March 21, 2023, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their

place and notify the KCM at kcm@nku.edu or 859-572-7690.

February 23, 2023

AVMR 2 - VIRTUAL - Lisa Riggs (2022-23)

Virtual sessions meet online via ZOOM

04:30 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

AVMR 2 (2022-23)

Course Description:

This course is built around Add+Vantage Math Recovery™ and is designed for elementary grades teachers who want to expand and deepen knowledge and understanding of the mathematical development for all students by implementing diagnostic assessments for multiplication and division and place value understanding. This course is for Elementary Teachers/Coaches who teach in the state of Kentucky only.

Participants must have completed AVMR 1 training in order to participate.

Cost: \$500 per participant

Duration: 8 two-hour virtual sessions via ZOOM

Session Dates:

**All 8 virtual sessions meet on THURSDAYS from 4:30-6:30 pm Eastern Time. These online sessions are live and interactive; they are not recordings that can be watched at any other time. Only register for this training if you can participate on Thursdays as scheduled below.*

Session 1: January 5, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 2: January 12, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 3: January 19, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session))

Session 4: January 26, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 5: February 2, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 6: February 9, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 7: February 16, 2021; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Session 8: February 23, 2023; 4:30-6:30pm Eastern Time/ 3:30-5:30pm Central Time (two-hour session)

Registration close date is November 17, 2022. The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

The registrations fee is nonrefundable once the AVMR2 kit is ordered.

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

In-person on 1/11 & 3/28 = 9am-4pm EST; virtual sessions in Feb = noon-3pm EST

Kentucky Center of Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Wednesday, January 11, 2023; 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 2: Tuesday, February 7, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Wednesday, February 8, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Tuesday, February 28, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, March 1, 2023, noon-3:00pm Eastern Time. (VIRTUAL)

Session 6: Tuesday, March 28, 2023, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

February 28, 2023

Explorations in 3rd Grade Fractions - In-person, Hopkinsville, KY - Bonny Riedell (2022-23)

The Bruce Convention Center

303 Conference Center Dr.

Hopkinsville, KY 42240

09:00 AM - 04:00 PM CST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Explorations in 3rd Grade Fractions - In-person, Hopkinsville, KY - Bonny Riedell (2022-23)

Course Description:

Grade 3 is a critical year in which students should develop strong conceptual foundations for understanding fractions.

During this 1-day training course, teachers will explore hands-on activities and tasks aligned to the Kentucky Academic Standards for Mathematics designed to support students in developing conceptual understandings of fractions as numbers.

Teachers will deepen their understanding of the third grade fractions standards, seeing them as part of a progression starting in first grade and continuing into middle school.

Participants will receive prepared materials and manipulatives, including fraction squares, Cuisenaire rods and KNP-IG activities.

Cost: \$100 per participant

Duration: 1 in-person day

Location: Hopkinsville, KY (Hopkinsville is in Christian County in Western Kentucky which is on Central Time)

The Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

COURSE SCHEDULE:

Tuesday, February 28, 2023; 9:00am-4:00 pm Central Time (1 in-person day)

Registration close date is Tuesday, January 31, 2023.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.

Registration fee is non-refundable once materials are ordered. Should you register and then be unable to attend, contact the KCM. If materials have already been ordered, your school or district should send a different teacher in your place.

March 1, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

In-person on 1/11 & 3/28 = 9am-4pm EST; virtual sessions in Feb = noon-3pm EST

Kentucky Center of Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Wednesday, January 11, 2023; 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 2: Tuesday, February 7, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Wednesday, February 8, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Tuesday, February 28, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, March 1, 2023, noon-3:00pm Eastern Time. (VIRTUAL)

Session 6: Tuesday, March 28, 2023, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

March 2, 2023

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Virtual ZOOM meetings

03:45 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Course Description:

Modeling with mathematics is one of the most misunderstood Standards for Mathematical Practice, yet it is essential for ALL students to master. Participants of this course will

experience an instructional routine that builds students' capacity to make sense of models and to develop questions to ask themselves when modeling.

learn about designs for interaction that build opportunities for students to develop mathematical language and process the ideas and concepts of modeling.

PLEASE NOTE:

Participants who teach in Kentucky will receive a copy of the book Teaching for Thinking.

Participants who teach outside of Kentucky will need to purchase their own copy of Teaching for Thinking if they wish to participate in this course.

Cost: FREE

Duration: 4 half-day virtual sessions

Please note: This professional learning event will meet virtually via 4 half-day ZOOM meeting sessions on select Thursdays in 2023 from 3:45 - 6:30 pm EST. Teachers must be able to fully participate in all 4 live and interactive ZOOM meeting sessions as scheduled. Sessions are not recorded to be watched at any time.

SCHEDULE:

SESSION 1: Thursday, January 19, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 2: Thursday, February 9, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 3: Thursday, March 2, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 4: Thursday, March 23, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

Teachers must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another teacher.

March 3, 2023

Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-2023)
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LOUISVILLE, KY****

LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

March 3, 2023

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

* Implementation of participant's 1st Family Math Night to occur before December 31, 2022.

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

* Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.

March 14, 2023

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli
2 in-person days in Louisville, KY; 8 virtual sessions online via ZOOM

**In-person = University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building,
Louisville , KY 40222**

in-person days on June 21 & 22 = 9am-4pm EST; 8 virtual sessions = noon-3pm EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

THIS COURSE IS FULL. Please click here to be added to the WAIT LIST for this KCM Course.

Building Numeracy with Middle Grades Students (5-8): HYBRID, Louisville, KY - Dee Crescitelli (2022-23)

Course Description:

PLEASE NOTE: This KCM professional learning event is available only to educators in Kentucky. This course is designed for 5th, 6th, 7th or 8th grade math teachers, but other Kentucky educators who believe this training would be helpful in their work are welcome to register and participate as well.

We know that students develop their mathematical reasoning skills over time and at different rates - and that the past year has created instructional gaps due to the time available for math instruction in different pandemic teaching situations.

This year-long, in-depth course provides teachers with information and materials to enable them to strengthen mathematics instruction by building from students' current funds of knowledge.

Participants will learn teaching strategies for helping students develop the more sophisticated reasoning needed for middle grades mathematics with the goal of improving student access to grade-level content.

Each participant will receive two sets of the "24 Game: Fractions/Decimals" card game

Each participant will also receive 4 books:

Figuring out Fluency in Mathematics Teaching and Learning

Elementary and Middle School Mathematics Teaching Developmentally, 10th edition

Building Powerful Numeracy for Middle School & High School Students

Lessons and Activities for Building Powerful Numeracy

*COST: FREE (*This course is open to Kentucky educators only)*

**Participants must be registered to attend and are expected to fully participate in both the in-person days and all 8 virtual sessions as scheduled below. The virtual sessions are live and interactive sessions that meet online via ZOOM. They are not recordings to be watched at any other time. All 8 half-day virtual sessions meet on Tuesday afternoons during the school year. Please confirm you can participate in this course on Tuesday afternoons before registering.*

Duration: 10 Sessions (2 in-person days and 8 half-day virtual sessions)

Location:

*2 IN-PERSON DAYS in Louisville, KY at the University of Louisville Conference Center,
ShelbyHurst Campus, Founders Union Building*

8 VIRTUAL half-day sessions online via ZOOM

2022-23 BUILDING NUMERACY SCHEDULE:

SESSION 1: Tuesday, June 21, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 2: Wednesday, June 22, 2022; 9:00 am - 4:00 pm Eastern Time (in-person day in Louisville)

SESSION 3: Tuesday, August 23, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 4: Tuesday, September 20, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 5: Tuesday, October 25, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 6: Tuesday, November 15, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 7: Tuesday, December 13, 2022; noon-3:00pm Eastern Time (half-day virtual)
SESSION 8: Tuesday, January 24, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 9: Tuesday, February 21, 2023; noon-3:00pm Eastern Time (half-day virtual)
SESSION 10: Tuesday, March 14, 2023; noon-3:00pm Eastern Time (half-day virtual)

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Please note: The KCM is absorbing all the costs associated with providing this professional development. If you register for this event and then find you are unable to attend for any reason, contact the KCM as soon as possible so your spot and materials can be given to another teacher. Registered teachers who fail to show up for this training may be charged for the cost of course materials, training and meeting space.

March 15, 2023

Statistics as a Progression - VIRTUAL - Dee Crescitelli & Bonny Riedell (2022-23)

Virtual sessions via ZOOM

12:00 PM - 03:00 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Statistics as a Progression

This professional learning event is open to any teacher. The intended audience for this course is 2nd through 6th Grade teachers.

COURSE DESCRIPTION:

Statistics is gaining recognition as an important component of mathematics education, from the primary grades to middle and high school continuing to post-secondary.

During this course, participants will deepen their understanding of statistics and see the standards and skills of their grade level as part of a progression starting in primary and continuing into middle and high school.

Essential statistics standards in the Kentucky Academic Standards for Mathematics begin in first grade and continue through all grade levels with the goal of developing student ability to comprehend and deal with variability and statistical information in the world around them and participate effectively in an information-laden society.

The KCAS- Mathematics also position students as doers of statistics as they take part in the production, interpretation, and communication of data.

Participants will explore instructional strategies for developing statistical understanding and receive virtual resources for use with students.

Cost: FREE

Duration: 2 half-day sessions

2023 SCHEDULE:

Session 1: Wednesday, February 15, 2023; noon - 3:00 pm Eastern Time (which is 11am - 2 pm Central Time)

Session 2: Wednesday, March 15, 2023; noon - 3:00 pm Eastern Time (which is 11 am - 2 pm Central Time)

Please note: Participants must be able to participate in both sessions during the dates and times listed. These are live and interactive ZOOM meetings. They are not recordings that can be watched at other times.

Registration deadline is February 8, 2023.

Please contact the KCM at kcm@nku.edu or 859-572-7690 if you have any questions, or if you register and then are no longer able to attend. Thank you.

March 17, 2023

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

March 21, 2023

Explorations in Geometry (K-5) - VIRTUAL - Cindy Aossey (2022-23)

VIRTUAL sessions via ZOOM

09:00 AM - 04:00 PM EST

Explorations in Geometry (K-5)

COURSE DESCRIPTION:

Geometry is a critical area spanning all elementary grade levels with connections to measurement, operations and algebraic thinking, and fractions.

Participants will:

attend 2 half-day synchronous virtual sessions.

receive the book "Teaching Student-Centered Mathematics" for grades K-2 or 3-5 (choose a grade band during registration) and hands-on materials.

deepen their understanding of the Van Hiele Model of geometric reasoning and the Kentucky Academic Standards for Mathematics Geometry standards.

explore both virtual and hands-on instructional tasks for developing geometric reasoning.

Cost: \$50 per participant (Note: This professional learning event is only open to math educators who work in the U.S.)

Duration: 1 virtual day

Schedule: Tuesday, March 21, 2023; 9:00am-noon and 1:00-4:00pm Eastern (2 half-day sessions on one day)

(If you are in the Central Time Zone, then you will attend these sessions from 8:00-11:00 am and noon-3:00pm Central)

***Participants must be able to meet on March 21 during both sessions.*

These sessions are live and interactive ZOOM meetings. Sessions are not recordings that can be viewed at other times.

Please note: Book and course materials will be shipped via UPS to the school address entered on each registration. UPS is unable to deliver to PO BOX #s, so please provide the physical mailing address of your school - no PO Box #s.

Registration closes January 24, 2023 to allow enough time to order the correct grade-band specific books and materials kits. Participants will select their Grade Band when they select their registration package.

Should you register for this professional learning event and are unable to attend for any reason, contact the KCM at kcm@nku.edu or 859-572-7690.

The registration fee must be paid once materials are ordered. If you are unable to attend after materials have been ordered and there is a wait list for this course, the KCM can void your registration; if there is no wait list, then your school or district should select a different teacher to attend in your place.

March 21, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Hopkinsville, KY - Bonny Riedell (

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Hopkinsville, KY

IN-PERSON = The Bruce Convention Center

Hopkinsville, KY 42240

in-person on 1/10 & 3/21 = 9am-4pm CST; virtual in Jan & Feb = noon-3pm CST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via live ZOOM meetings.

The 2 full-day in-person sessions will meet at the Bruce Convention Center, 303 Conference Center Dr, Hopkinsville, KY 42240

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS HOPKINSVILLE, KY COHORT:

Session 1: Tuesday, January 10, 2023; 9:00 am - 4:00 pm Central Time (IN PERSON)

Session 2: Tuesday, January 31, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 3: Wednesday, February 1, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 4: Tuesday, February 21, 2023; noon-3:00pm Central Time. (VIRTUAL)

Session 5: Wednesday, February 22, 2023, noon-3:00pm Central Time. (VIRTUAL)

Session 6: Tuesday, March 21, 2023, 9:00 am - 4:00 pm Central Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their

place and notify the KCM at kcm@nku.edu or 859-572-7690.

March 23, 2023

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Virtual ZOOM meetings

03:45 PM - 06:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Modeling WITH Mathematics: Middle School Grades 6-8 - VIRTUAL - Dee Crescitelli (2022-23)

Course Description:

Modeling with mathematics is one of the most misunderstood Standards for Mathematical Practice, yet it is essential for ALL students to master. Participants of this course will

experience an instructional routine that builds students' capacity to make sense of models and to develop questions to ask themselves when modeling.

learn about designs for interaction that build opportunities for students to develop mathematical language and process the ideas and concepts of modeling.

PLEASE NOTE:

Participants who teach in Kentucky will receive a copy of the book Teaching for Thinking.

Participants who teach outside of Kentucky will need to purchase their own copy of Teaching for Thinking if they wish to participate in this course.

Cost: FREE

Duration: 4 half-day virtual sessions

Please note: This professional learning event will meet virtually via 4 half-day ZOOM meeting sessions on select Thursdays in 2023 from 3:45 - 6:30 pm EST. Teachers must be able to fully participate in all 4 live and interactive ZOOM meeting sessions as scheduled. Sessions are not recorded to be watched at any time.

SCHEDULE:

SESSION 1: Thursday, January 19, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 2: Thursday, February 9, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 3: Thursday, March 2, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

SESSION 4: Thursday, March 23, 2023; 3:45-6:30 pm Eastern Time (which is 2:45-5:30pm Central Time)

Teachers must be registered to participate. Registration deadline is December 1, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

Should you register for this event and then are no longer able to attend, contact the KCM to have your registration voided so that your spot can be offered to another teacher.

March 24, 2023

AVMR PLUS: PART 2 (Virtual AVMR2 with bonus in-person day) - Lexington - Cindy Aossey (2

Virtual Sessions meet online via ZOOM; in-person day meets in Lexington, KY

Virtual Sessions 1-8=noon-2 pm EST; In-person Session 9=9am-4pm EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

AVMR PLUS: PART 2

Course Description:

Participants in KCM's AVMR PLUS: PART 2 will complete Add+Vantage Math Recovery (AVMR™) Course 2 by attending 8 virtual two-hour sessions.

In addition, participants will attend a bonus KCM-designed in-person day where they will receive additional materials and instructional resources.

This course is designed for elementary grades teachers and interventionists.

Participants will learn and practice assessments and teaching strategies for advancing students' foundational number knowledge. Topics covered include place value, multi-digit addition & subtraction, and multiplication & division.

AVMR PLUS: PART 2 is the second part of the KCM course formally called KNPI (Kentucky Numeracy Project Intensive) Course.

IN ORDER TO ATTEND THIS COURSE, Participants must have completed KCM's AVMR PLUS: PART 1 or have completed Add+Vantage Math Recovery (AVMR™) Course 1.

COST OF AVMR PLUS: PART 2: \$500 per participant

DURATION: 8 virtual sessions and one optional in-person day in Lexington, KY

PLEASE NOTE: Approximately one hour of asynchronous work will be assigned for each two-hour virtual session.

SCHEDULE FOR AVMR PLUS: PART 2:

Session 1: Wednesday, November 2, 2022; noon-2:00pm Eastern Time

Session 2: Friday, November 4, 2022; noon-2:00pm Eastern Time

Session 3: Wednesday, December 7, 2022; noon-2:00pm Eastern Time

Session 4: Friday, December 9, 2022; noon-2:00pm Eastern Time

Session 5: Wednesday, January 18, 2023; noon-2:00pm Eastern Time

Session 6: Friday, January 20, 2023; noon-2:00pm Eastern Time

Session 7: Wednesday, February 8, 2023; noon-2:00pm Eastern Time

Session 8: Friday, February 10, 2023; noon-2:00pm Eastern Time

Session 9: Friday, March 24, 2023; 9:00am– 4:00pm (bonus in-person day w/lunch break in Lexington)

**Registration cutoff date is September 14, 2022*

The KCM needs a minimum of 7 weeks to order and receive the AVMR2 kits from Math Recovery needed for this course.

Registration fee is non-refundable once the AVMR kits are ordered.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

March 28, 2023

Comprehensive Course for Primary K-2: PART 2 - HYBRID, Lexington, KY - Julie Adams (2022)

4 virtual half-day sessions via ZOOM; 2 in-person sessions in Lexington, KY

In-person on 1/11 & 3/28 = 9am-4pm EST; virtual sessions in Feb = noon-3pm EST

Kentucky Center of Mathematics , 859-572-7690

kcm@nku.edu

Comprehensive Course for Primary Grades K-2: PART 2

Course Description:

PLEASE NOTE: THERE IS A PREREQUISITE FOR THIS COURSE: Anyone wishing to attend this course must have completed KCM's Comprehensive Course for Primary Grades K-2: Part 1 in the Fall of 2022. You may register for both in the Spring of 2022; but only those participants who complete Part 1 will be allowed to participate in Part 2.

This 6-session professional learning opportunity is designed for classroom, special education, and mathematics intervention teachers of students in Grades K-2.

Participants will engage in varied instructional strategies, and will acquire tools to assess, support, and advance students' mathematical reasoning and knowledge.

Aligned to research-based teaching practices and Kentucky Academic Standards, topics will include operations and algebraic thinking, measurement and data, and math/literature connections.

Participants will receive books, activities and instructional materials, along with assessment strategies to identify and target student needs and misconceptions in early numeracy.

PART 2 Big Ideas = Measurement, Time & Money, Algebraic Reasoning & Problem Solving and Math Fact Fluency

Cost: \$400 per participant

Duration: 6 sessions (4 half-day virtual sessions plus 2 in-person days)

Location:

The 4 half-day virtual sessions will meet online via ZOOM meetings.

The 2 full-day in-person sessions will meet in Lexington, KY

PLEASE NOTE: The virtual sessions are not recorded to be watched at any other time. They are live and interactive virtual sessions that participants should be fully engaged in as scheduled below.

SESSION SCHEDULE FOR THIS LEXINGTON, KY COHORT:

Session 1: Wednesday, January 11, 2023; 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Session 2: Tuesday, February 7, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 3: Wednesday, February 8, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 4: Tuesday, February 28, 2023; noon-3:00pm Eastern Time. (VIRTUAL)

Session 5: Wednesday, March 1, 2023, noon-3:00pm Eastern Time. (VIRTUAL)

Session 6: Tuesday, March 28, 2023, 9:00 am - 4:00 pm Eastern Time (IN PERSON)

Registration for this cohort closes at midnight on Thursday, December 1, 2022.

Please note: The \$400 registration fee for this course is non-refundable once materials have been ordered. Should a registered participant find they are no longer able to attend this event, they should find a teacher from their school or district to take their place and notify the KCM at kcm@nku.edu or 859-572-7690.

March 31, 2023

Foundations for Early Childhood Mathematics: In-Person, Louisville, KY - Julie Adams (2022-2023)
University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15
450 N. Whittington Parkway
Louisville , KY 40222

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Louisville)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LOUISVILLE, KY****

LOCATION = In-person at the University of Louisville Conference Center, ShelbyHurst Campus, Founders Union Building: Room 15

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in LOUISVILLE, KY

Session 1: September 9, 2022

Session 2: September 30, 2022

Session 3: November 4, 2022

Session 4: December 2, 2022

Session 5: January 6, 2023

Session 6: February 3, 2023

Session 7: March 3, 2023

Session 8: March 31, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 12, 2022

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

April 21, 2023

Foundations for Early Childhood Mathematics: In-Person, Lexington, KY - Julie Adams (2022-TBD in Lexington, KY

08:30 AM - 11:30 AM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

Foundations for Early Childhood Mathematics (Lexington)

COURSE DESCRIPTION:

This Foundations for Early Childhood Mathematics professional development course is for Preschool and Kindergarten teachers who teach in the state of Kentucky only. It features content developed by the Erikson Institute, leaders in early childhood education. This professional learning highlights the "Big Ideas" in early mathematics which include sets, number sense, counting, number operations, pattern, measurement and shape. Participants will learn how to spark children's mathematical learning through developmentally appropriate exploration, discussion and activity using high-impact, evidence-based strategies and children's literature which support the teaching and learning of early mathematics.

****THIS COURSE MEETS IN PERSON ON FRIDAYS FROM 8:30 - 11: 30 AM EASTERN TIME IN LEXINGTON, KY****

Upon registering, participants are expected to attend and actively participate in all eight half-day in-person sessions. Please do not register for this training if you are unable to attend in-person on Fridays from 8:30 -11:30 am Eastern Time on the dates listed below. Your school must provide substitutes for your classroom if necessary.

SCHEDULE:

Fridays, 8:30 - 11: 30 AM Eastern Time IN-PERSON in Lexington, KY

Session 1: September 16, 2022

Session 2: October 28, 2022

Session 3: November 18, 2022

Session 4: December 16, 2022

Session 5: January 20, 2023

Session 6: February 17, 2023

Session 7: March 17, 2023

Session 8: April 21, 2023

COST: FREE (For Kentucky Preschool and Kindergarten teachers only)

Registration deadline is August 19, 2022.

Should you register for this training and then find you are unable to attend for any reason, you must contact the KCM at kcm@nku.edu or 859-572-7690 so your spot can be offered to another Kentucky teacher. No shows may be charged for the cost of the materials, training and meeting space.

April 28, 2023

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Virtual ZOOM meetings

09:30 AM - 11:00 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

Family Math - VIRTUAL - Lisa Riggs (2022-23)

Description:

This free KCM professional learning event is for KENTUCKY mathematics educators only.

During this Family Math course, we will explore research on family engagement and how to educate parents concerning math fluency and the current standards.

Participants will explore family math resources and how to conduct a family math night event.

Participants will be given materials to conduct 2 Family Math Nights - one per semester.

Participants will implement two Family Math Nights at their school: the 1st before Dec 31, 2022 and the 2nd before April 28, 2023.

Participants will share their successes and takeaways from each of their Family Math Nights.

Cost: FREE (For Kentucky Mathematics Educators only)

Duration: 8 virtual 90-minute ZOOM meeting sessions, plus two Family Math Night implementations.

All 8 virtual sessions will meet on FRIDAYS from 9:30 - 11:00 am Eastern Time (which is 8:30 am - 10:00 am Central Time).

SCHEDULE:

1. Friday, August 26, 2022; 9:30-11:00 am Eastern Time

2. Friday, September 9, 2022; 9:30-11:00 am Eastern Time

3. Friday, September 23, 2022; 9:30-11:00 am Eastern Time

** Implementation of participant's 1st Family Math Night to occur before December 31, 2022.*

4. Friday, January 6, 2023; 9:30-11:00 am Eastern Time (Reflection session to celebrate and share each participant's 1st Family Math Night)

5. Friday, January 20, 2023; 9:30-11:00 am Eastern Time

6. Friday, February 3, 2023; 9:30-11:00 am Eastern Time

7. Friday, March 3, 2023; 9:30-11:00 am Eastern Time

** Implementation of participant's 2nd Family Math Night to occur before April 28, 2023.*

8. Friday, April 28, 2023; 9:30-11:00am Eastern Time (Reflection session to celebrate and share each participant's 2nd Family Math Night)

Before registering, please make sure that you are able to fully participate in all 8 live and interactive ZOOM meeting sessions on Fridays from 9:30 - 11:00 am Eastern Time. By registering for this course, you are agreeing to host two Family Math Nights: one before December 31, 2022, and one before April 28, 2023.

Registration cutoff date is July 29, 2022.

Please contact the KCM at kcm@nku.edu or 859-572-7690 with any questions.

The KCM sends a registration confirmation email to everyone who registers for a KCM event. This email often goes to the recipient's junk folder. If you register and do not receive a confirmation email from kcm@nku.edu, check your junk folder - and then contact the KCM. Any KCM emails found in your junk folder need to be moved to your inbox and the sender marked as safe. Thank you.