

## Calendar of Events

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](mailto: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

8/16/22: This AVMR PLUS: Part 2 course is now full.

The KCM has a 2nd cohort of AVMR 2 starting in 2023: Please click here to see the schedule for that cohort and to register for AVMR 2 - VIRTUAL.

If you would like to be added to a WAIT LIST for this AVMR PLUS: Part 2 course click here.

**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 8, 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

**Fluency Assessment Training- Cindy Aossey (FEB 8, 2023)**

**Virtual - Zoom**

03:30 PM - 05:00 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*Fluency Assessment Training with KCM Regional Consult Cindy Aossey:*

*In this 90 minute session, participants will learn how to administer and score the KCM Kentucky Numeracy Project Fluency Assessments. In addition, there will be discussions about using the information from the assessments for planning mathematics instruction in elementary grades. Participants will gain access to the full suite of Fluency Assessments after completing a practice assessment with an elementary-aged student.*

*This Fluency Assessment Training is open to any elementary school math teacher; even those who teach outside of Kentucky.*

*For any teacher who has attended a KCM event in the past, your school email is already in our system; enter your school email address and then please update anything else that has changed or is missing.*

*KY educators must use their @(school district).kyschools.us email.*

*If you work for an organization and not a school or school district, please enter the name of the organization where you work.*

*Please include the grade of math you work with on your position title: examples = 3rd Grade Teacher; K-5 Math Interventionist; Curriculum Coach K-12.*

*DATE: Wednesday, February 8, 2023*

*TIME: 3:30 - 5:00 pm Eastern Time (which is 2:30 - 4:00 pm Central Time)*

*LOCATION: Virtual ZOOM Meeting*

*Participants must be able to participate virtually on the date of the session. This training is live and interactive. It is not recorded.*

*Registered participants will receive the information they need to connect to the ZOOM meeting from the facilitator Cindy Aossey. This email may go to your junk folder so look for it there. Please move any KCM emails you find in your junk folder to your inbox and mark the sender as safe. Thank you.*

*Contact the KCM at kcm@nku.edu or 859-572-7690, or the facilitator Cindy Aossey at cindy.aossey@outlook.com, with any questions.*

*If you register for this training and then find that you will be unable to attend for any reason, please let us know so we can void your registration and offer your spot to another teacher. Please, don't be a no show. Thank you!*

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

*Registration is closed for this course in order to order the AVMR 2 kits needed. If you wish to participate in this training, call the KCM at 859-572-7690 or email us at kcm@nku.edu and we work to make that happen.*

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 9, 2023

**Guiding Principles Session #2: What It Really Means To Teach Elementary Mathematics - Jonathan Thomas**

**This is a virtual session that will meet via ZOOM. The ZOOM link will be emailed to all registered participants.**

11:30 AM - 12:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

**GUIDING PRINCIPLES SESSION #2**

*What it really means to teach elementary mathematics – building community around guiding principles, with Dr. Jonathan Thomas*

*The KCM is proud to announce a series of virtual professional learning sessions for K-5 math educators called Guiding Principles. These Guiding Principles Sessions (Fall 2022 and Spring 2023) will focus on exploring foundational principles for teaching mathematics in elementary schools and how to build community and broader buy-in to these principles from students, colleagues, administrators, and other stakeholders. All K-5 mathematics educators are encouraged to participate - especially Math Intervention Teachers.*

*The first 1-hour virtual session took place on Thursday, November 10.*

*This 2nd 1-hour virtual session will take place on Thursday, November 9, from 11:30 am - 12:30 pm Eastern Time (which is 10:30 - 11:30 am Central Time)*

*Please note: This session will not be recorded to watch at any other time. Participants must be able to attend this live and interactive session on Thursday, February 9 from 11:30 am - 12:30 pm Eastern time.*

*The ZOOM meeting link will be emailed to all registered participants before the session.*

*Any questions about this event can be directed to KCM Regional Consultant Lisa Riggs at [Iriggs2@murraystate.edu](mailto:Iriggs2@murraystate.edu)*

*The Kentucky Center for Mathematics (KCM) can be reached M-F from 8:15 am - 4:30 pm at 859-572-7690 or [kcm@nku.edu](mailto:kcm@nku.edu)*

*Please contact the KCM if you register for this event and then are no longer able to attend on February 9th as scheduled so your registration can be voided and your spot offered to another teacher.*



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

8/16/22: This AVMR PLUS: Part 2 course is now full.

The KCM has a 2nd cohort of AVMR 2 starting in 2023: Please click here to see the schedule for that cohort and to register for AVMR 2 - VIRTUAL.

If you would like to be added to a WAIT LIST for this AVMR PLUS: Part 2 course click here.

**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 (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

*Registration is closed for this course in order to order the AVMR 2 kits needed. If you wish to participate in this training, call the KCM at 859-572-7690 or email us at kcm@nku.edu and we work to make that happen.*

*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

*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](mailto: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

**Fluency Assessment Training- Cindy Aossey (February 2023)**

**Virtual - Zoom**

04:30 PM - 06:00 PM EST

Kentucky Center for Mathematics, 859-572-7690

kcm@nku.edu

*THIS COHORT OF FLUENCY ASSESSMENT TRAINING IS FULL. WE DO HAVE A COHORT MEETING IN MARCH.*

*CLICK HERE TO BE TAKEN TO THE KCM'S FLUENCY ASSESSMENT TRAINING PAGE AND TO REGISTER FOR THE MARCH COHORT*

*Fluency Assessment Training with KCM Regional Consult Cindy Aossey:*

*In this 90 minute session, participants will learn how to administer and score the KCM Kentucky Numeracy Project Fluency Assessments. In addition, there will be discussions about using the information from the assessments for planning mathematics instruction in elementary grades. Participants will gain access to the full suite of Fluency Assessments after completing a practice assessment with an elementary-aged student.*

*This Fluency Assessment Training is open to any elementary school math teacher; even those who teach outside of Kentucky.*

*For any teacher who has attended a KCM event in the past, your school email is already in our system; enter your school email address and then please update anything else that has changed or is missing.*

*KY educators must use their @(school district).kyschools.us email.*

*If you work for an organization and not a school or school district, please enter the name of the organization where you work.*

*Please include the grade of math you work with on your position title: examples = 3rd Grade Teacher; K-5 Math Interventionist; Curriculum Coach K-12.*

*DATE: Tuesday, February 21, 2023*

*TIME: 4:30 - 6:00 pm Eastern Time (which is 3:30 - 5:00 pm Central Time)*

*LOCATION: Virtual ZOOM Meeting*

*Participants must be able to participate virtually on the date of the session. This training is live and interactive. It is not recorded.*

*Registered participants will receive the information they need to connect to the ZOOM meeting from the facilitator Cindy Aossey. This email may go to your junk folder so look for it there. Please move any KCM emails you find in your junk folder to your inbox and mark the sender as safe. Thank you.*

*Contact the KCM at kcm@nku.edu or 859-572-7690, or the facilitator Cindy Aossey at cindy.aossey@outlook.com, with any questions.*

February 22, 2023

**Math Intervention Teachers (MIT) Collegial Support - Lisa Riggs - (2022-23)**

**This professional learning event will meet virtually via ZOOM meetings on select Wednesdays througho**

11:30 AM - 12:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*Math Intervention Teachers (MIT) Collegial Support - Lisa Riggs - (2022-23)*

*The KCM is excited to announce a new professional learning event just for Kentucky Math Intervention Teachers. This collegial learning and support opportunity is open to Kentucky K-5 Math Intervention Teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers. This group will meet virtually once a month on Wednesdays via a 1-hour ZOOM meeting from 11:30 am - 12:30 pm Eastern Time.*

*This event will be facilitated by KCM Regional Consultant Lisa Riggs along with other special guests.*

**TEACHER TOOL KIT:**

*In addition to the monthly collegial support meetings, being an active part of this select group will allow you to receive a fun KCM MIT teacher tool kit containing support materials from the KCM 3 times throughout the 2022-23 school year.*

**MONTHLY NEWSLETTER:**

*Participants will also receive a monthly newsletter with teacher tips and intervention resources.*

**SPECIAL MEET AND GREET:**

*Because virtual is great but in-person is better, we are planning a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2023. (Monday & Tuesday, March 6 & 7)*

**MONTHLY ZOOM MEETING SCHEDULE:**

*Please note: These are live and interactive ZOOM meetings that meet from 11:30 am - 12:30 pm Eastern Time, which is 10:30 - 11:30 am Central Time. They are not recorded to be watched at any other time.*

1. Wednesday, September 7, 2022
2. Wednesday, October 19, 2022
3. Wednesday, November 30, 2022
4. Wednesday, January 18, 2023
5. Wednesday, February 22, 2023
6. Wednesday, April 19, 2023

*There is no registration fee for this event. It is free for Kentucky K-5 Math Intervention Teachers. We hope you are as excited about this opportunity as we are! if you want to be a part of this MIT Collegial Support Team, please register today as space may be limited.*

*Thank you for all you do for your students! The KCM is here to support you help your math students succeed in any way we can so don't hesitate to reach out to us with any questions about this professional learning event, or if we can help you in some other way.*

*The KCM can be reached at 859-572-7690 or kcm@nku.edu or info@kentuckymathematics.org.*

*Our website is www.kymath.org and you can access lots of free resources there - like Math Fact Fluency games to use with your students.*



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

*Registration is closed for this course in order to order the AVMR 2 kits needed. If you wish to participate in this training, call the KCM at 859-572-7690 or email us at kcm@nku.edu and we work to make that happen.*

### **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.*

**KCM Math Circle for Teachers of Grades 6-12 - VIRTUAL - Bethany Noblitt (2022-23)**

**Sessions will meet virtually via ZOOM**

04:45 PM - 06:45 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*KCM Math Circle for Teachers of Grades 6-12 - VIRTUAL - Bethany Noblitt (2022-23)*

*Description: Math Circles are communities focused on the enjoyment of mathematical problem solving. The purpose of our meetings is to do what brought us to the profession of teaching mathematics in the first place – our love of mathematics! Our meetings will be interactive and challenging in a highly rewarding way. We will work together to try to solve interesting, puzzling, perplexing, non-routine, worthwhile mathematics problems.*

*This Math Circle is open to all in-service teachers, preservice teachers, and mathematics teacher educators interested in grades 6-12 mathematics.*

*All Math Circle virtual meeting sessions will meet once a month via ZOOM from October 2022 - May 2023 on select Mondays from 4:45 pm - 6:45 pm Eastern (which is 3:35 pm - 5:45 pm Central)*

*Facilitator: KCM Faculty Associate/NKU Professor of Mathematics and Statistics  
Bethany Noblitt*

*Cost: There is no fee to participate in this KCM event.*

*Location: Virtual via ZOOM.*

*Please note: The ZOOM meeting link will be emailed to all registered participants. Once you register and receive the ZOOM link, you may share that link with colleagues and friends who wish to participate, but we ask that they register themselves or that they contact the KCM to have us complete their registration. Because participants do not need to be able to attend all 8 sessions, and because participants may join any session late or leave early if necessary, we kindly ask that all participants be registered and let the facilitator and/or the KCM know when they will be unable to participate in a session. Please show professional courtesy to the facilitator Bethany Noblitt and your fellow math educators by letting Bethany and/or the KCM know when you will not be attending a session, will be late or will be leaving early.*

**EVENT DATES:**

1. Monday, October 24, 2022
2. Monday, November 14, 2022
3. Monday, December 19, 2022
4. Monday, January 23, 2023
5. Monday, February 27, 2023
6. Monday, March 20, 2023
7. Monday, April 17, 2023
8. Monday, May 15, 2023

*The KCM can always be reached at 859-572-7690 or kcm@nku.edu with any questions. Our normal business hours are M-F, 8:15 am - 4:30 pm.*

*Bethany Noblitt can be reached via email at noblittb@nku.edu.*

**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 - Cindy Aossey (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 - Cindy Aossey (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

**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 6, 2023

**2023 KCM Conference: In-person - Lexington, KY**

**Hyatt Regency Lexington**

**401 W High St**

**Lexington, KY 40507**

08:00 AM - 03:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*The KCM is both excited and disappointed to announce that we have reached our registration limit for the 2023 KCM Conference. We are unable to accept any more registrations at this time. Please sign up on the WAIT LIST for this event by clicking [here](#). We are working with the event venue to try and accommodate more attendees, if the KCM is able to add additional registrations, we will use the WAIT LIST and contact people in the order they signed up on it. Please call the KCM at 859-572-7690 with any questions.*

*2023 KCM Conference*

*Monday and Tuesday, March 6 & 7, 2023 at the Hyatt Regency Lexington*

*The theme for the 2023 KCM Conference is EMPOWER: Building United Mathematical Communities.*

*After a 2-year break from meeting in-person, the KCM can't wait to see everyone again!*

*Breakfast and lunch provided both days. Free parking. 8:00 am - 3:30 pm.*

*Registration fee is \$215 per participant.*

**REGISTRATION FEE REFUNDS:**

*PLEASE NOTE: All Registration Fees are NON-REFUNDABLE after January 20, 2023.*

*Should you register and find that you are unable to attend the 2023 KCM Conference on March 6 & 7 for any reason, please contact the KCM at 859-572-7690 or kcm@nku.edu.*

*If the KCM has a WAIT LIST and someone takes your spot, the KCM will void your registration and you will not need to pay the registration fee. If there is no one on the WAIT LIST to take your spot, you can send someone else from your school, district or organization to attend in your place. If you do not attend and someone else does not attend in your place - you or your school/district/organization is still responsible to pay the registration fee.*

**KEYNOTE SPEAKERS FOR THE 2023 KCM CONFERENCE**

1. *Amanda (Mandy) Jansen - Mathematics Education Professor at the University of Delaware*

*Early in her career, Mandy was a middle school mathematics teacher in Arizona. She earned her Ph.D. in educational psychology at Michigan State University. As a teacher educator at the University of Delaware, she prepares future elementary and middle school mathematics teachers, and she facilitates professional learning for in-service secondary mathematics teachers. In her research, Mandy investigates how mathematics teachers create engaging learning experiences for their students. One product from this research is her book, *Rough Draft Math: Revising to Learn*, which was published by Stenhouse.*

2. *Kyndall Brown - Executive Director of the California Mathematics Project Statewide Office*

*Dr. Kyndall Brown has over 35 years of experience in mathematics education. Kyndall holds a bachelor's degree in mathematics, master's degrees in computer-based education and mathematics education, and a Ph.D in Education. He was a secondary mathematics teacher for 13 years. He has been a professional development provider for schools and districts in Los Angeles County for over 25 years. He is currently the*

executive director of the California Mathematics Project. He presents at local, state, and national conferences on mathematics education and writes articles for mathematics education publications. His research focuses on the impact of culture and identity on the ways that African-American males learn mathematics. He is the co-author of the book *Choosing To See: A Framework For Equity In The Math Classroom*.

3. *Barbara Dougherty - Mathematics Education Professor at the University of Hawaii.*

*Dr. Barbara Dougherty teaches at the University of Hawaii where she was the Director of The Curriculum R&D Group. She served on the Board of Directors for the NCTM (National Council of Teachers of Mathematics), and she is currently a co-chair of the NCTM/CEC (Council for Exceptional Children) Joint Committee to support students who struggle in mathematics. Barbara has a passion for assisting struggling math students and has authored more than 35 books on mathematics education, including *The Math Pact*, *High School: Achieving Instructional Coherence Within and Across Grades*. Her soon-to-be published book from Corwin is *Rich Algebra Classroom-Ready Tasks*. Barbara holds certifications in 7-12 mathematics and K-12 SLD (Specific Learning Disability).*

4. *Sarah B. Bush - Professor of K-12 STEM Education at the University of Central Florida*

*Dr. Sarah B. Bush teaches primary graduate courses in mathematics education and is the program coordinator of the mathematics education PhD track at the University of Central Florida. Sarah is actively involved in the National Council of Teachers of Mathematics (NCTM), serving recently as an elected member of the Board of Directors (2019-2022). She is the author of the recent book series, *The Math Pact*, and she served as the lead writer and task force chair for *Catalyzing Change in Middle School Mathematics: Initiating Critical Conversations*, published in 2020. Sarah seamlessly integrates her practical experience as a middle school mathematics teacher in public schools with her innovative scholarship to serve as an instructional leader in the field of mathematics education and STE(A)M education.*

5. *Deborah Peart - CEO of My Mathematical Mind*

*Deborah Peart is the founder of My Mathematical Mind and speaks on a variety of topics related to math identity, elementary math content and instruction, and literacy connections to mathematics. Blending her training in yoga and mindfulness with mathematics instruction, Deborah advocates for a mindful approach to teaching mathematics in order to address math anxiety, build confidence, and support the development of positive math identities. She has dedicated her career to supporting educators with innovative teaching strategies that allow students to see themselves as assets to the learning community and curious problem-solvers. She is the Director of Elementary Learning at UnboundEd and the lead author for second grade for the *Illustrative Mathematics K-5* curriculum. Deborah believes that all children deserve high quality instruction and the opportunity to become competent readers, writers, and mathers.*

**TENTATIVE 2023 KCM CONFERENCE SCHEDULE:**

**SUNDAY, MARCH 5, 2023:**

**6:30-8:30 pm:** Early check-in will be available on Sunday night at the Hyatt - exact time TBD.

**MONDAY, MARCH 6, 2023:**

**7:00-8:00 am:** CHECK-IN/REGISTRATION and BREAKFAST

**8:00-9:30 am:** (90-minute session) KEYNOTE SPEAKER #1 in Ballroom

**9:45-10:30am** (45-minute session) BREAKOUT SESSIONS ROUND 1

**10:45-11:30am** (45-minute session) BREAKOUT SESSIONS ROUND 2

**11:45am-1:15pm** (90-minute session) KEYNOTE SPEAKER #2 and LUNCH in Ballroom

1:30-2:15pm (45-minute session) BREAKOUT SESSIONS ROUND 3  
2:30-3:15pm (45-minute session) BREAKOUT SESSIONS ROUND 4  
TUESDAY, MARCH 7, 2023:  
7:00-8:00 am: CHECK-IN/REGISTRATION and BREAKFAST  
8:00-9:30 am: (90-minute session) KEYNOTE SPEAKER #3 in Ballroom  
9:45-10:30am (45-minute session) BREAKOUT SESSIONS ROUND 1  
10:45-11:30am (45-minute session) BREAKOUT SESSIONS ROUND 2  
11:45am-1:15pm (90-minute session) KEYNOTE SPEAKER #4 and LUNCH in Ballroom  
1:30-2:15pm (45-minute session) BREAKOUT SESSIONS ROUND 3  
2:30-3:15pm (45-minute session) BREAKOUT SESSIONS ROUND 4  
3:30 pm End-of-Conference Giveaways (Must be present to win)

*\*The Schedule above is subject to change. All registered participants will be emailed a final schedule before the event towards the end of February. Please note that many KCM emails go to recipient's junk or spam folders. Be sure to check for KCM emails in your junk and spam folders at the end of February about the event app we will be using and for the session schedules for both days.*

*We can't wait to see you in March!*

March 7, 2023

## **2023 KCM Conference: In-person - Lexington, KY**

**Hyatt Regency Lexington**

**401 W High St**

**Lexington, KY 40507**

08:00 AM - 03:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*The KCM is both excited and disappointed to announce that we have reached our registration limit for the 2023 KCM Conference. We are unable to accept any more registrations at this time. Please sign up on the WAIT LIST for this event by clicking [here](#). We are working with the event venue to try and accommodate more attendees, if the KCM is able to add additional registrations, we will use the WAIT LIST and contact people in the order they signed up on it. Please call the KCM at 859-572-7690 with any questions.*

### *2023 KCM Conference*

*Monday and Tuesday, March 6 & 7, 2023 at the Hyatt Regency Lexington*

*The theme for the 2023 KCM Conference is EMPOWER: Building United Mathematical Communities.*

*After a 2-year break from meeting in-person, the KCM can't wait to see everyone again!*

*Breakfast and lunch provided both days. Free parking. 8:00 am - 3:30 pm.*

*Registration fee is \$215 per participant.*

### **REGISTRATION FEE REFUNDS:**

*PLEASE NOTE: All Registration Fees are NON-REFUNDABLE after January 20, 2023. Should you register and find that you are unable to attend the 2023 KCM Conference on March 6 & 7 for any reason, please contact the KCM at 859-572-7690 or kcm@nku.edu. If the KCM has a WAIT LIST and someone takes your spot, the KCM will void your registration and you will not need to pay the registration fee. If there is no one on the WAIT LIST to take your spot, you can send someone else from your school, district or organization to attend in your place. If you do not attend and someone else does not attend in your place - you or your school/district/organization is still responsible to pay the registration fee.*

### **KEYNOTE SPEAKERS FOR THE 2023 KCM CONFERENCE**

**1. Amanda (Mandy) Jansen - Mathematics Education Professor at the University of Delaware**

*Early in her career, Mandy was a middle school mathematics teacher in Arizona. She earned her Ph.D. in educational psychology at Michigan State University. As a teacher educator at the University of Delaware, she prepares future elementary and middle school mathematics teachers, and she facilitates professional learning for in-service secondary mathematics teachers. In her research, Mandy investigates how mathematics teachers create engaging learning experiences for their students. One product from this research is her book, *Rough Draft Math: Revising to Learn*, which was published by Stenhouse.*

**2. Kyndall Brown - Executive Director of the California Mathematics Project Statewide Office**

*Dr. Kyndall Brown has over 35 years of experience in mathematics education. Kyndall holds a bachelor's degree in mathematics, master's degrees in computer-based education and mathematics education, and a Ph.D in Education. He was a secondary mathematics teacher for 13 years. He has been a professional development provider for schools and districts in Los Angeles County for over 25 years. He is currently the*

executive director of the California Mathematics Project. He presents at local, state, and national conferences on mathematics education and writes articles for mathematics education publications. His research focuses on the impact of culture and identity on the ways that African-American males learn mathematics. He is the co-author of the book *Choosing To See: A Framework For Equity In The Math Classroom*.

3. *Barbara Dougherty - Mathematics Education Professor at the University of Hawaii.*

*Dr. Barbara Dougherty teaches at the University of Hawaii where she was the Director of The Curriculum R&D Group. She served on the Board of Directors for the NCTM (National Council of Teachers of Mathematics), and she is currently a co-chair of the NCTM/CEC (Council for Exceptional Children) Joint Committee to support students who struggle in mathematics. Barbara has a passion for assisting struggling math students and has authored more than 35 books on mathematics education, including *The Math Pact*, *High School: Achieving Instructional Coherence Within and Across Grades*. Her soon-to-be published book from Corwin is *Rich Algebra Classroom-Ready Tasks*. Barbara holds certifications in 7-12 mathematics and K-12 SLD (Specific Learning Disability).*

4. *Sarah B. Bush - Professor of K-12 STEM Education at the University of Central Florida*

*Dr. Sarah B. Bush teaches primary graduate courses in mathematics education and is the program coordinator of the mathematics education PhD track at the University of Central Florida. Sarah is actively involved in the National Council of Teachers of Mathematics (NCTM), serving recently as an elected member of the Board of Directors (2019-2022). She is the author of the recent book series, *The Math Pact*, and she served as the lead writer and task force chair for *Catalyzing Change in Middle School Mathematics: Initiating Critical Conversations*, published in 2020. Sarah seamlessly integrates her practical experience as a middle school mathematics teacher in public schools with her innovative scholarship to serve as an instructional leader in the field of mathematics education and STE(A)M education.*

5. *Deborah Peart - CEO of My Mathematical Mind*

*Deborah Peart is the founder of My Mathematical Mind and speaks on a variety of topics related to math identity, elementary math content and instruction, and literacy connections to mathematics. Blending her training in yoga and mindfulness with mathematics instruction, Deborah advocates for a mindful approach to teaching mathematics in order to address math anxiety, build confidence, and support the development of positive math identities. She has dedicated her career to supporting educators with innovative teaching strategies that allow students to see themselves as assets to the learning community and curious problem-solvers. She is the Director of Elementary Learning at UnboundEd and the lead author for second grade for the *Illustrative Mathematics K-5* curriculum. Deborah believes that all children deserve high quality instruction and the opportunity to become competent readers, writers, and mathers.*

**TENTATIVE 2023 KCM CONFERENCE SCHEDULE:**

**SUNDAY, MARCH 5, 2023:**

**6:30-8:30 pm:** Early check-in will be available on Sunday night at the Hyatt - exact time TBD.

**MONDAY, MARCH 6, 2023:**

**7:00-8:00 am:** CHECK-IN/REGISTRATION and BREAKFAST

**8:00-9:30 am:** (90-minute session) KEYNOTE SPEAKER #1 in Ballroom

**9:45-10:30am** (45-minute session) BREAKOUT SESSIONS ROUND 1

**10:45-11:30am** (45-minute session) BREAKOUT SESSIONS ROUND 2

**11:45am-1:15pm** (90-minute session) KEYNOTE SPEAKER #2 and LUNCH in Ballroom

1:30-2:15pm (45-minute session) BREAKOUT SESSIONS ROUND 3  
2:30-3:15pm (45-minute session) BREAKOUT SESSIONS ROUND 4  
TUESDAY, MARCH 7, 2023:  
7:00-8:00 am: CHECK-IN/REGISTRATION and BREAKFAST  
8:00-9:30 am: (90-minute session) KEYNOTE SPEAKER #3 in Ballroom  
9:45-10:30am (45-minute session) BREAKOUT SESSIONS ROUND 1  
10:45-11:30am (45-minute session) BREAKOUT SESSIONS ROUND 2  
11:45am-1:15pm (90-minute session) KEYNOTE SPEAKER #4 and LUNCH in Ballroom  
1:30-2:15pm (45-minute session) BREAKOUT SESSIONS ROUND 3  
2:30-3:15pm (45-minute session) BREAKOUT SESSIONS ROUND 4  
3:30 pm End-of-Conference Giveaways (Must be present to win)

*\*The Schedule above is subject to change. All registered participants will be emailed a final schedule before the event towards the end of February. Please note that many KCM emails go to recipient's junk or spam folders. Be sure to check for KCM emails in your junk and spam folders at the end of February about the event app we will be using and for the session schedules for both days.*

*We can't wait to see you in March!*

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

*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](mailto: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 (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 15, 2023

**Fluency Assessment Training- Cindy Aossey (March 2023)**

**Virtual - Zoom**

10:00 AM - 11:30 AM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*Fluency Assessment Training with KCM Regional Consult Cindy Aossey:*

*In this 90 minute session, participants will learn how to administer and score the KCM Kentucky Numeracy Project Fluency Assessments. In addition, there will be discussions about using the information from the assessments for planning mathematics instruction in elementary grades. Participants will gain access to the full suite of Fluency Assessments after completing a practice assessment with an elementary-aged student.*

*This Fluency Assessment Training is open to any elementary school math teacher; even those who teach outside of Kentucky.*

*For any teacher who has attended a KCM event in the past, your school email is already in our system; enter your school email address and then please update anything else that has changed or is missing.*

*KY educators must use their @(school district).kyschools.us email.*

*If you work for an organization and not a school or school district, please enter the name of the organization where you work.*

*Please include the grade of math you work with on your position title: examples = 3rd Grade Teacher; K-5 Math Interventionist; Curriculum Coach K-12.*

*DATE: Wednesday, March 15, 2023*

*TIME: 10:00 - 11:30 am Eastern Time (which is 9:00 - 10:30 am Central Time)*

*LOCATION: Virtual ZOOM Meeting*

*Participants must be able to participate virtually on the date of the session. This training is live and interactive. It is not recorded.*

*Registered participants will receive the information they need to connect to the ZOOM meeting from the facilitator Cindy Aossey. This email may go to your junk folder so look for it there. Please move any KCM emails you find in your junk folder to your inbox and mark the sender as safe. Thank you.*

*Contact the KCM at kcm@nku.edu or 859-572-7690, or the facilitator Cindy Aossey at cindy.aossey@outlook.com, with any questions.*

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 20, 2023

**KCM Math Circle for Teachers of Grades 6-12 - VIRTUAL - Bethany Noblitt (2022-23)**

**Sessions will meet virtually via ZOOM**

04:45 PM - 06:45 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*KCM Math Circle for Teachers of Grades 6-12 - VIRTUAL - Bethany Noblitt (2022-23)*

*Description: Math Circles are communities focused on the enjoyment of mathematical problem solving. The purpose of our meetings is to do what brought us to the profession of teaching mathematics in the first place – our love of mathematics! Our meetings will be interactive and challenging in a highly rewarding way. We will work together to try to solve interesting, puzzling, perplexing, non-routine, worthwhile mathematics problems.*

*This Math Circle is open to all in-service teachers, preservice teachers, and mathematics teacher educators interested in grades 6-12 mathematics.*

*All Math Circle virtual meeting sessions will meet once a month via ZOOM from October 2022 - May 2023 on select Mondays from 4:45 pm - 6:45 pm Eastern (which is 3:35 pm - 5:45 pm Central)*

*Facilitator: KCM Faculty Associate/NKU Professor of Mathematics and Statistics  
Bethany Noblitt*

*Cost: There is no fee to participate in this KCM event.*

*Location: Virtual via ZOOM.*

*Please note: The ZOOM meeting link will be emailed to all registered participants. Once you register and receive the ZOOM link, you may share that link with colleagues and friends who wish to participate, but we ask that they register themselves or that they contact the KCM to have us complete their registration. Because participants do not need to be able to attend all 8 sessions, and because participants may join any session late or leave early if necessary, we kindly ask that all participants be registered and let the facilitator and/or the KCM know when they will be unable to participate in a session. Please show professional courtesy to the facilitator Bethany Noblitt and your fellow math educators by letting Bethany and/or the KCM know when you will not be attending a session, will be late or will be leaving early.*

**EVENT DATES:**

1. Monday, October 24, 2022
2. Monday, November 14, 2022
3. Monday, December 19, 2022
4. Monday, January 23, 2023
5. Monday, February 27, 2023
6. Monday, March 20, 2023
7. Monday, April 17, 2023
8. Monday, May 15, 2023

*The KCM can always be reached at 859-572-7690 or kcm@nku.edu with any questions. Our normal business hours are M-F, 8:15 am - 4:30 pm.*

*Bethany Noblitt can be reached via email at noblittb@nku.edu.*

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](mailto: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 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

8/16/22: This AVMR PLUS: Part 2 course is now full.

The KCM has a 2nd cohort of AVMR 2 starting in 2023: Please click here to see the schedule for that cohort and to register for AVMR 2 - VIRTUAL.

If you would like to be added to a WAIT LIST for this AVMR PLUS: Part 2 course click here.

**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.*

April 3, 2023

**Fluency Assessment Training Follow-up: Using the FM100 - Cindy Aossey (April 2023)**

**Virtual - Zoom**

**The ZOOM link will be emailed to all registered participants just before the training date**

03:30 PM - 04:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*Fluency Assessment Training Follow-up: Using the FM100*

*Description: The FM100 is a KCM fluency assessment designed to assess students' understanding of multiplication and division within 100 (Fluency Standard KY.3.OA.7).*

*This 1-hour session will introduce participants to administering and scoring the FM 100.*

*Participants MUST have previously completed KCM Fluency Assessment Training.*

*Participants must be able to participate virtually on the date of the session. This training is live and interactive. It is not recorded.*

*Registered participants will receive the information they need to connect to the ZOOM meeting from the facilitator Cindy Aossey. This email may go to your junk or spam folder so look for it there. Please move any KCM emails you find in your junk and/or spam folders to your inbox and mark the sender as safe. Thank you.*

*DATE: Monday, April 3, 2023*

*TIME: 3:30 - 4:30 pm Eastern Time (which is 2:30 - 3:30 pm Central Time)*

*LOCATION: Virtual ZOOM Meeting*

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

April 17, 2023

**KCM Math Circle for Teachers of Grades 6-12 - VIRTUAL - Bethany Noblitt (2022-23)**

**Sessions will meet virtually via ZOOM**

04:45 PM - 06:45 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*KCM Math Circle for Teachers of Grades 6-12 - VIRTUAL - Bethany Noblitt (2022-23)*

*Description: Math Circles are communities focused on the enjoyment of mathematical problem solving. The purpose of our meetings is to do what brought us to the profession of teaching mathematics in the first place – our love of mathematics! Our meetings will be interactive and challenging in a highly rewarding way. We will work together to try to solve interesting, puzzling, perplexing, non-routine, worthwhile mathematics problems.*

*This Math Circle is open to all in-service teachers, preservice teachers, and mathematics teacher educators interested in grades 6-12 mathematics.*

*All Math Circle virtual meeting sessions will meet once a month via ZOOM from October 2022 - May 2023 on select Mondays from 4:45 pm - 6:45 pm Eastern (which is 3:35 pm - 5:45 pm Central)*

*Facilitator: KCM Faculty Associate/NKU Professor of Mathematics and Statistics  
Bethany Noblitt*

*Cost: There is no fee to participate in this KCM event.*

*Location: Virtual via ZOOM.*

*Please note: The ZOOM meeting link will be emailed to all registered participants. Once you register and receive the ZOOM link, you may share that link with colleagues and friends who wish to participate, but we ask that they register themselves or that they contact the KCM to have us complete their registration. Because participants do not need to be able to attend all 8 sessions, and because participants may join any session late or leave early if necessary, we kindly ask that all participants be registered and let the facilitator and/or the KCM know when they will be unable to participate in a session. Please show professional courtesy to the facilitator Bethany Noblitt and your fellow math educators by letting Bethany and/or the KCM know when you will not be attending a session, will be late or will be leaving early.*

**EVENT DATES:**

1. Monday, October 24, 2022
2. Monday, November 14, 2022
3. Monday, December 19, 2022
4. Monday, January 23, 2023
5. Monday, February 27, 2023
6. Monday, March 20, 2023
7. Monday, April 17, 2023
8. Monday, May 15, 2023

*The KCM can always be reached at 859-572-7690 or kcm@nku.edu with any questions. Our normal business hours are M-F, 8:15 am - 4:30 pm.*

*Bethany Noblitt can be reached via email at noblittb@nku.edu.*

April 19, 2023

**Math Intervention Teachers (MIT) Collegial Support - Lisa Riggs - (2022-23)**

**This professional learning event will meet virtually via ZOOM meetings on select Wednesdays througho**

11:30 AM - 12:30 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

*Math Intervention Teachers (MIT) Collegial Support - Lisa Riggs - (2022-23)*

*The KCM is excited to announce a new professional learning event just for Kentucky Math Intervention Teachers. This collegial learning and support opportunity is open to Kentucky K-5 Math Intervention Teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers. This group will meet virtually once a month on Wednesdays via a 1-hour ZOOM meeting from 11:30 am - 12:30 pm Eastern Time.*

*This event will be facilitated by KCM Regional Consultant Lisa Riggs along with other special guests.*

**TEACHER TOOL KIT:**

*In addition to the monthly collegial support meetings, being an active part of this select group will allow you to receive a fun KCM MIT teacher tool kit containing support materials from the KCM 3 times throughout the 2022-23 school year.*

**MONTHLY NEWSLETTER:**

*Participants will also receive a monthly newsletter with teacher tips and intervention resources.*

**SPECIAL MEET AND GREET:**

*Because virtual is great but in-person is better, we are planning a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2023. (Monday & Tuesday, March 6 & 7)*

**MONTHLY ZOOM MEETING SCHEDULE:**

*Please note: These are live and interactive ZOOM meetings that meet from 11:30 am - 12:30 pm Eastern Time, which is 10:30 - 11:30 am Central Time. They are not recorded to be watched at any other time.*

- 1. Wednesday, September 7, 2022*
- 2. Wednesday, October 19, 2022*
- 3. Wednesday, November 30, 2022*
- 4. Wednesday, January 18, 2023*
- 5. Wednesday, February 22, 2023*
- 6. Wednesday, April 19, 2023*

*There is no registration fee for this event. It is free for Kentucky K-5 Math Intervention Teachers. We hope you are as excited about this opportunity as we are! if you want to be a part of this MIT Collegial Support Team, please register today as space may be limited.*

*Thank you for all you do for your students! The KCM is here to support you help your math students succeed in any way we can so don't hesitate to reach out to us with any questions about this professional learning event, or if we can help you in some other way.*

*The KCM can be reached at 859-572-7690 or kcm@nku.edu or info@kentuckymathematics.org.*

*Our website is www.kymath.org and you can access lots of free resources there - like Math Fact Fluency games to use with your students.*

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.*

May 15, 2023

**KCM Math Circle for Teachers of Grades 6-12 - VIRTUAL - Bethany Noblitt (2022-23)**

**Sessions will meet virtually via ZOOM**

04:45 PM - 06:45 PM EST

Kentucky Center for Mathematics , 859-572-7690

kcm@nku.edu

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*This Math Circle is open to all in-service teachers, preservice teachers, and mathematics teacher educators interested in grades 6-12 mathematics.*

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*Facilitator: KCM Faculty Associate/NKU Professor of Mathematics and Statistics  
Bethany Noblitt*

*Cost: There is no fee to participate in this KCM event.*

*Location: Virtual via ZOOM.*

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*Bethany Noblitt can be reached via email at noblittb@nku.edu.*