Calendar of Events

July 12, 2023

Add+VantageMR® (AVMR) Course 1 REFRESHER - Louisville - Lisa Riggs (2023-24)
In-person in Louisville
University of Louisville Conference Center, ShelbyHurst Campus - FOUNDERS UNION BUILDING (Room 201)
Louisville, KY 40222
09:00 AM - 04:00 PM EST
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Have you completed Add+VantageMR® (AVMR) Course 1 training and would love a quality refresher course before the new school year starts? Have you been using the AVMR Course 1 materials but know its time to reboot your learning? The KCM guarantees you will find some new and amazing ways to use the materials. This summer is a great time to refresh your knowledge and the KCM is pleased to offer this 1-day AVMR 1 refresher course in Louisville, KY at no cost to Kentucky educators.

COURSE TITLE: Add+VantageMR® (AVMR) Course 1 REFRESHER

COURSE DESCRIPTION:
This in-person, one-day professional learning event is for math educators who have completed Add+VantageMR® (AVMR) Course 1.

* Refresh and renew your knowledge of AVMR Course 1.
* Connect with other AVMR teachers to share ideas and resources.
* Topics will include the assessments and models for Number Words & Numerals, Structuring Number and Addition & Subtraction; the Learning Framework in Number (LFIN); and the Classroom Instructional Framework for Early Number (CIFEN).

Date: Wednesday, July 12 2023
Time: 9 am - 4 pm Eastern with a 1-hour lunch break. (*Participants are on their own for lunch.)
Cost: Free for Kentucky educators
Location: Louisville, KY
VENUE = University of Louisville Conference Center, Founders Union Building (Room 201), ShelbyHurst Campus, 450 N Whittington Pkwy, Louisville, KY 40222

Registration closes on Tuesday, July 4, 2023. Participants must register by 11:59 pm on Tuesday, July 4, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

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

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facilitator can plan accordingly. Thanks you!
Building Numeracy with Middle Grades Students (5-8) - London, KY - Erron Prickett (2023-24)

In-person days on July 12 & 13 = Country Inn & Suites, London, KY; Virtual half-days = ZOOM
2035 W Highway 192
London, KY 40741

IN-PERSON July 12 & 13, 2023=9am-4pm;  VIRTUAL sessions=8:30 -11:30 am (E)

Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Are your middle school students struggling with mathematical reasoning? Look no further! You have found a professional development course to support your efforts. The resources and training provided during the KCM's "Building Numeracy with Middle Grades Students" course will empower you to take student learning and understanding to the next level.

COURSE TITLE: Building Numeracy with Middle Grades Students (5-8)

COURSE DESCRIPTION:
Students often struggle to further their mathematical thinking from the intermediate grades to the rigors of middle school. But when students develop their numeracy skills and grow their toolbox of mathematical reasoning strategies, they increase their confidence to do sophisticated mathematics. During this hybrid course, teachers will explore the power of representations, problems strings, and the use of reasoning strategies to develop numeracy, proportional reasoning, and algebraic thinking in their middle school students.

In this course, participants will:
* learn teaching strategies for helping students develop the multiplicative and proportional reasoning needed for middle school math.
* be provided with games such as 24 Game and manipulatives such as Cuisenaire Rods to develop numeracy through modeling number and quantitative relationships.
* explore Desmos activities designed to illuminate key ratio and proportion concepts.
* receive several books including Building Powerful Numeracy for Middle and High School Students, Lessons and Activities for Building Powerful Numeracy, Figuring Out Fluency, and Elementary and Middle School Mathematics: Teaching Developmentally.

Please note:
This is a 5-Session HYBRID course:
* The first 2 sessions are full-day, in-person sessions that meet in July
* The last 3 sessions are half-day virtual sessions that will meet via ZOOM on school days.
* Participants should not be working with students during the half-day virtual sessions and should obtain a half-day sub for those 3 sessions if necessary.

COST: $200 per participant

DATES & TIMES:
1. Wednesday, July 12, 2023 = IN PERSON : 9 am - 4 pm Eastern (8 am - 3 pm Central)
2. Thursday, July 13, 2023 = IN PERSON: 9 am - 4 pm Eastern (8 am - 3 pm Central)
3. Tuesday, September 19, 2023 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
4. Tuesday, October 17, 2023 = VIRTUAL: 8:30 -11:30 am Eastern (7:30 - 10:30 am Central)
5. Tuesday, January 16, 2024 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
LOCATION:
The 2 in-person days will meet in London, KY, which is in Laurel County KY - Southeastern KY.
The 3 virtual half-days will meet via ZOOM.

Registration closes on Thursday, July 6, 2023. Participants must register by 11:59 pm on Thursday, July 6, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants must register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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Information regarding Purchase Orders and KCM Invoices:
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* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Are you looking for ready-to-use materials and amazing K-2 professional learning? This 2-day course is filled with materials for you to use with your math students right away! Centered around easy-to-implement routines, this course will revitalize your teaching and positively impact your classroom.

COURSE TITLE: Creating Learner-Centered Math Classrooms K-2
This course was previously part of the KCM's "Comprehensive Course for Primary Grades K-2"

COURSE DESCRIPTION:
* Learn routines and strategies for teaching number sense that emphasize the Standards for Mathematical Practices (SMPs) utilizing the Effective Mathematics Teaching Practices (MTPs).
* Review the big ideas of early number sense within the Kentucky Academic Standards.
* Participants will receive books and materials such as Teaching Student-Centered Mathematics, Daily Routines to Jump-Start Math Class, 10 frame cards, whiteboard paddles with 10 frames, and more.
* Participants will receive over $200 in materials. You will LOVE the resources provided for your classroom!

COST: $200 per participant
DATES: Thursday and Friday, July 13 & 14, 2023
TIME: 9 am - 4 pm Eastern
LOCATION: Louisville, Kentucky
VENUE = University of Louisville Conference Center, FOUNDERS UNION BUILDING (Room 136B), ShelbyHurst Campus, 450 N Whittington Pkwy, Louisville, KY 40222

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Have you completed Add+VantageMR® (AVMR) Course 2 training and would love a quality refresher course before the new school year starts? The KCM is pleased to offer this 1-day AVMR 2 refresher course in Louisville, KY, at no cost to Kentucky educators. The KCM guarantees you will find some new and amazing ways to use your AVMR® 2 materials. Join us this summer to reboot your learning and refresh your knowledge with fellow Kentucky educators.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 REFRESHER

COURSE DESCRIPTION:
This in-person, one-day professional learning event is for math educators who have completed Add+Vantage Math Recovery® (AVMR) Course 2.

* Refresh and renew your knowledge of AVMR Course 2
* Connect with other AVMR teachers to share ideas and resources
* Topics include the assessments and models for Base Ten and Multiplication & Division; the Learning Framework in Number (LFIN); and the Classroom Instructional Framework for Early Number (CIFEN).

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Time: 9 am - 4 pm Eastern with a 1-hour lunch break. (*Participants are on their own for lunch.)
Cost: Free for Kentucky educators
Location: Louisville, KY
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**COURSE TITLE:** Building Numeracy with Middle Grades Students (5-8)

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Do you struggle to know exactly where your students are in their journey towards mathematical fluency? AVMR Course 1 is just what you have been looking for. Join KCM experts who will guide you toward a deeper understanding of how students develop number sense. Be ready to transform your math classroom!

COURSE TITLE: Add+VantageMR® (AVMR) Course 1 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students’ foundational knowledge in counting, numeral identification, structuring numbers to 20, and addition and subtraction.

* Participants will receive an AVMR® Course 1 kit and complete Add+Vantage MR® Course 1 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* AVMR® Course 1 is a prerequisite for AVMR® Course 2
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 1 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 1 - 2023 SCHEDULE:
* This course meets on 6 Fridays starting in July and ending in October.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Friday, July 14, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
2. Friday, July 14, 2023: 1:30 - 3:30 pm EDT
3. Friday, July 21, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
4. Friday, July 21, 2023: 1:30 - 3:30 pm EDT
5. Friday, July 28, 2023 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
6. Friday, July 28, 2023: 1:30 - 3:30 pm EDT
7. Friday, September 8, 2023: 12 - 2 pm EDT
8. Friday, September 15, 2023: 12 - 2 pm EDT
9. Friday, October 20, 2023: 9 am - 4 pm (In-person in Elizabethtown, KY - venue name)
Registration closes on Friday, June 30, 2023. Participants must register by 11:59 pm on Friday, June 30, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

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Imagine a classroom where students are engaged in meaningful and purposeful game play. This is the course for you! Join the KCM as we explore math fact fluency and receive ready-to-use games to engage your students to meet this goal. You will walk away with the resources you need to transform your classroom.

**COURSE TITLE:** Math Fact Fluency Grades 1-5

**COURSE DESCRIPTION:**

Fluency with single-digit facts for addition, subtraction, multiplication, and division is essential for all students. Providing rich experiences grounded in research is necessary for fact fluency and provides access and equity for all students.

* This 2-day course provides participants with routines, games, and assessments to lower student anxiety and increase students’ belief in their math problem-solving skills.
* Participants will receive the book Math Fact Fluency by experts Jennifer Bay-Williams and Gina Kling, laminated Math Fact Fluency games with the materials needed to play them, and strategies they can implement right away.

**COST:** $200 per participant

**DATES:** Tuesday & Wednesday, July 25 & 26, 2023

**TIME:** 9 am - 4 pm Eastern

**LOCATION:** Louisville, Kentucky
Drury Inn & Suites Louisville East
9501 Blairwood Rd
Hurstbourne, KY 40222

Registration closes on Wednesday, July 19, 2023. Participants must register by 11:59 pm on Wednesday, July 19, in order to attend.

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* You may register for any KCM course without a PO; however, please note that many Kentucky school districts require you obtain a PO before they will pay the invoice.
Please obtain a PO if one is required by your school or district.
* Only the registered participant will be emailed a copy of the course invoice. It is the participant’s responsibility to forward that invoice on to the appropriate person at their school or district for payment.

* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nku.edu.

* KCM Invoices are not mailed.

* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Have you tried everything to help your students add and subtract within 1,000? Let's add a deep understanding of structuring number to your teacher toolbox. The KCM is excited to add this new 1-day professional learning event for 1st, 2nd, 3rd and 4th Grade Teachers to our PD offerings. The power of place value will transform your students’ understanding!

COURSE TITLE: Understanding Place Value: Structuring Numbers to 1,000 Grades 1-4

COURSE DESCRIPTION:

As students develop mental strategies for adding and subtracting, they make sense of the powerful structure of our base-10 number system. Learn how to support your students in developing their own strategies for addition & subtraction.

* Explore ways to use manipulatives, visuals, and scaffolded tasks to support students’ understanding of place value, addition and subtraction.  
* Participants will receive books and resources to support place value understanding of numbers within 1,000 - such as base-10 manipulatives and ready-to-play activities.  

COST: $100 per participant  
DATES: Thursday, July 27, 2023  
TIME: 9 am - 4 pm Eastern  
LOCATION: Berea, Kentucky (venue name and address will be emailed to all registered participants)

Registration closes on Tuesday, July 25, 2023. Participants must register by 11:59 pm on Tuesday, July 25, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $100 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

Information regarding Purchase Orders and KCM Invoices:
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* Participants may ask that a copy of their invoice be emailed to another email address;
contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Are your K-2 students struggling with the basic math operations of addition and subtraction? At the KCM, we LOVE to give educators the tools needed to guide your students to a deep understanding of the mathematics learning trajectory. Join us as we explore the power of the rekenreks and other tools to support student learning.

COURSE TITLE: From Counting to Chunking K-2: Addition and Subtraction Within 20
This course was previously part of the KCM's "Comprehensive Course for Primary Grades K-2"

COURSE DESCRIPTION:
In this 2-day course, participants will:
* develop pedagogical strategies that lead students to use counting in increasingly sophisticated ways utilizing the Stages of Early Arithmetical Learning (SEAL).
* learn to connect the Stages of Early Arithmetical Learning to the Kentucky Academic Standards.
* build capacity to effectively utilize manipulatives, games, and literature with K-2 students to develop chunking strategies.
* receive materials including books, rekenreks, spinners, and other resources that promote structuring within 20.

COST: $200 per participant
DATES: Thursday and Friday, July 27 & 28, 2023
TIME: 9 am - 4 pm Eastern
LOCATION: Louisville, Kentucky
Drury Inn & Suites Louisville East
9501 Blairwood Rd
Hurstbourne, KY 40222

Registration closes on Wednesday, July 19, 2023. Participants must register by 11:59 pm on Wednesday, July 19, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $200 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nkue.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Are your K-2 students struggling with the basic math operations of addition and subtraction? At the KCM, we LOVE to give educators the tools needed to guide your students to a deep understanding of the mathematics learning trajectory. Join us as we explore the power of the rekenreks and other tools to support student learning.

**COURSE TITLE:** From Counting to Chunking K-2: Addition and Subtraction Within 20
This course was previously part of the KCM's "Comprehensive Course for Primary Grades K-2"

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In this 2-day course, participants will:
* develop pedagogical strategies that lead students to use counting in increasingly sophisticated ways utilizing the Stages of Early Arithmetical Learning (SEAL).
* learn to connect the Stages of Early Arithmetical Learning to the Kentucky Academic Standards.
* build capacity to effectively utilize manipulatives, games, and literature with K-2 students to develop chunking strategies.
* receive materials including books, rekenreks, spinners, and other resources that promote structuring within 20.

**COST:** $200 per participant
**DATES:** Thursday and Friday, July 27 & 28, 2023
**TIME:** 9 am - 4 pm Eastern
**LOCATION:** Louisville, Kentucky
Drury Inn & Suites Louisville East
9501 Blairwood Rd
Hurstbourne, KY 40222

Registration closes on Wednesday, July 19, 2023. Participants must register by 11:59 pm on Wednesday, July 19, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $200 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

**Information regarding Purchase Orders and KCM Invoices:**
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Please obtain a PO if one is required by your school or district.
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* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Add+VantageMR® (AVMR) Course 1 PLUS - VIRTUAL & ETOWN - Lisa Riggs (2023-24)
July 14, 21, 28: ZOOM; Sept. 8 & 15: ZOOM; Oct. 20: Elizabethtown, KY
July 14, 21 & 28: 9am-3:30pm; Sept 8 & 15: 12-2 pm; Oct 20: 9am-4pm (E)
Kentucky Center for Mathematics, 879-572-7690
kcm@nku.edu
6/7/23: This cohort of AVMR Course 1 is full and not accepting any more registrations. We apologize for the inconvenience this causes anyone. We look forward to serving you in the future. Click here to be added to a wait list for this course.

Do you struggle to know exactly where your students are in their journey towards mathematical fluency? AVMR Course 1 is just what you have been looking for. Join KCM experts who will guide you toward a deeper understanding of how students develop number sense. Be ready to transform your math classroom!

COURSE TITLE: Add+VantageMR® (AVMR) Course 1 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students’ foundational knowledge in counting, numeral identification, structuring numbers to 20, and addition and subtraction.

* Participants will receive an AVMR® Course 1 kit and complete Add+Vantage MR® Course 1 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* AVMR® Course 1 is a prerequisite for AVMR® Course 2
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 1 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 1 - 2023 SCHEDULE:
* This course meets on 6 Fridays starting in July and ending in October.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Friday, July 14, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
2. Friday, July 14, 2023: 1:30 - 3:30 pm EDT
3. Friday, July 21, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
4. Friday, July 21, 2023: 1:30 - 3:30 pm EDT
5. Friday, July 28, 2023 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
6. Friday, July 28, 2023: 1:30 - 3:30 pm EDT
7. Friday, September 8, 2023: 12 - 2 pm EDT
8. Friday, September 15, 2023: 12 - 2 pm EDT
9. Friday, October 20, 2023: 9 am - 4 pm (In-person in Elizabethtown, KY - venue name
& address will be emailed to all registered participants.

Registration closes on Friday, June 30, 2023. Participants must register by 11:59 pm on Friday, June 30, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants must register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $600 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place, keeping in mind that the same person must attend all 8 virtual sessions. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Fluency Assessment Training - Sumer Smith (August 2023)
Virtual via ZOOM. The ZOOM link will be emailed to all registered participants by the course facilitator.
04:30 PM - 06:00 PM EST
Sumer Smith,
sumer.smith@louisville.edu

Fluency Assessment Training with KCM Regional Consultant Sumer Smith:
In this 90-minute session, participants will learn how to administer and score the KCM Kentucky Numeracy Project Fluency Assessments.

Fluency assessments are a free resource created by the Kentucky Center for Mathematics.
The assessments are aligned to fluency standards for grades K-3.
Each assessment comes in 9 versions that can be used for progress monitoring.
Fluency assessments are administered using a one-on-one interview format.
Participants will gain access to the full suite of Fluency Assessments after completing the online training session and a practice assessment with an elementary-aged student.
Fluency Assessment Training is open to any educator, even those who teach outside of Kentucky.

DATE: Thursday, August 31, 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 at the scheduled time. This training is live and interactive; it is not recorded to be watched at any other time.
Registered participants will receive the information they need to connect to the ZOOM meeting from the facilitator Sumer Smith (sumer.smith@louisville.edu). 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!
The registration cut-off date for this event is Wednesday, August 30, 2023.
Contact the KCM at kcm@nku.edu or 859-572-7690, or the facilitator Sumer Smith at sumer.smith@louisville.edu with any questions.

When you register for this event, you are creating a KCM member record and agree to becoming a "Friend of the KCM" and receive periodic emails from us including our bi-monthly newsletter and emails about future KCM professional learning events. We ask that anyone who attends a KCM professional learning event remain a Friend of the KCM for at least one year following the event.

When you register for this event, please do the following:

For any teacher who has attended a KCM event in the past, your work email is already in our system; enter that same email at the start and everything else should auto-populate. Please update anything else that has changed or is missing.
If you attended a KCM event in the past, but have changed school districts, schools or organizations, please call the KCM at 859-572-7690 or email us at kcm@nku.edu so we can update your KCM member record.
Kentucky public school educators must use their "firstname.lastname@(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 and put OTHER for school district and N/A for county.
If you teach outside of Kentucky, please include your state abbreviation in parenthesis...
after the name of your school district and school (or organization) and enter N/A for County.
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. The KCM does not sell or provide our member contact lists to anyone. The information provided on your registration is used only by the KCM.
Imagine a school where parents are true partners in mathematical learning. Now learn how to make that vision a reality. This course will empower you to host an AMAZING Family Math Night at your school. Course participants even get to choose from a KCM approved list of math manipulatives and order up to $250 in materials to use at their Family Math Night.

COURSE TITLE: Family Math K-6: Empowering Parents as Partners

COURSE DESCRIPTION:
Families are critical partners in students' developing mathematical knowledge. Yet, so many parents, grandparents and guardians feel frustrated and overwhelmed when trying to help their child with math. For this course, the KCM utilizes the book Partnering With Parents in Elementary School Math: A Guide for Teachers and Leaders; this wonderful resource provides educators with guidance on how to communicate with families about their child's math learning. Each participant receives a copy of this book.

During this course, participants will:
* explore research on family engagement and how to educate parents concerning math fluency and the Kentucky Academic Standards.
* discuss family math resources and how to conduct a family math night event.
* host one Family Math Night at their own school.
* receive up to $250 of manipulatives and activity resources for their family math night. Participants will choose the materials and resources they need from a list of approved options provided by the KCM.

COST: $50  (This course is available for KENTUCKY K-6 educators only)
LOCATION: Virtual ZOOM meetings
TIME: 9:30 - 11:00 am Eastern (8:30 am - 10:00 am Central)
DATES: 5 virtual 90-minute sessions on select FRIDAYS, plus 1 Family Math Night implementation
1. September 8, 2023
2. September 22, 2023
3. January 5, 2024
4. January 26, 2024
5. April 26, 2024

Participants must be able to attend all 5 virtual ZOOM meetings as scheduled above. These virtual sessions are live and interactive meetings; they are not recorded to be watched at any other time.

Registration closes on Thursday, August 17, 2023. Participants must register by 11:59 pm on Thursday, August 17 in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.
Please note:
This KCM professional learning event is for KENTUCKY K-6 educators only. Participants commit to implementing one Family Math Night event at their school during the 2023-24 school year. Each school will receive up to $250 of materials to use at their Family Math Night event.

Since spots in this course are limited, we ask that each school register just one participant - which should be the person who will be leading the planning and implementation of the Family Math Night event at their school. Should a school want to have more than one person attend this course, they should contact the KCM at 859-572-7690 or kcm@nku.edu to discuss their situation. The KCM will determine the best way to handle any additional registrations needed for that school.

The $50 registration fee is non-refundable once the book is ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

Information regarding Purchase Orders and KCM Invoices:
* You may register for any KCM course without a PO; however, please note that many Kentucky school districts require you obtain a PO before they will pay the invoice. Please obtain a PO if one is required by your school or district.
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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.
Add+VantageMR® (AVMR) Course 1 PLUS - VIRTUAL & ETOWN - Lisa Riggs (2023-24)
July 14, 21, 28: ZOOM; Sept. 8 & 15: ZOOM; Oct. 20: Elizabethtown, KY
July 14, 21 & 28: 9:00-3:30 pm; Sept 8 & 15: 12-2 pm; Oct 20: 9:00-4 pm (E)
Kentucky Center for Mathematics, 879-572-7690
kcm@nku.edu
6/7/23: This cohort of AVMR Course 1 is full and not accepting any more registrations.
We apologize for the inconvenience this causes anyone. We look forward to serving you in the future. Click here to be added to a wait list for this course.

Do you struggle to know exactly where your students are in their journey towards mathematical fluency? AVMR Course 1 is just what you have been looking for. Join KCM experts who will guide you toward a deeper understanding of how students develop number sense. Be ready to transform your math classroom!

COURSE TITLE: Add+VantageMR® (AVMR) Course 1 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students’ foundational knowledge in counting, numeral identification, structuring numbers to 20, and addition and subtraction.

* Participants will receive an AVMR® Course 1 kit and complete Add+Vantage MR® Course 1 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* AVMR® Course 1 is a prerequisite for AVMR® Course 2
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 1 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 1 - 2023 SCHEDULE:
* This course meets on 6 Fridays starting in July and ending in October.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Friday, July 14, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
2. Friday, July 14, 2023: 1:30 - 3:30 pm EDT
3. Friday, July 21, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
4. Friday, July 21, 2023: 1:30 - 3:30 pm EDT
5. Friday, July 28, 2023: 1 hour independent work and lunch break from 11:00 am - 1:30 pm).
6. Friday, July 28, 2023: 1:30 - 3:30 pm EDT
7. Friday, September 8, 2023: 12 - 2 pm EDT
8. Friday, September 15, 2023: 12 - 2 pm EDT
9. Friday, October 20, 2023: 9 am - 4 pm (In-person in Elizabethtown, KY - venue name)
Registration closes on Friday, June 30, 2023. Participants must register by 11:59 pm on Friday, June 30, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants must register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Fluency Assessment Training - Sumer Smith (September 2023)
Virtual via ZOOM. The ZOOM link will be emailed to all registered participants by the course facilitator.
01:00 PM - 02:30 PM EST
Sumer Smith,
sumer.smith@louisville.edu

Fluency Assessment Training with KCM Regional Consultant Sumer Smith:
In this 90-minute session, participants will learn how to administer and score the KCM Kentucky Numeracy Project Fluency Assessments.

Fluency assessments are a free resource created by the Kentucky Center for Mathematics.
The assessments are aligned to fluency standards for grades K-3.
Each assessment comes in 9 versions that can be used for progress monitoring.
Fluency assessments are administered using a one-on-one interview format.
Participants will gain access to the full suite of Fluency Assessments after completing the online training session and a practice assessment with an elementary-aged student.
Fluency Assessment Training is open to any educator, even those who teach outside of Kentucky.

DATE: Tuesday, September 12, 2023
TIME: 1:00 - 2:30 pm Eastern Time (which is 12:00 - 1:30 pm Central Time)
LOCATION: Virtual ZOOM Meeting

Participants must be able to participate virtually on the date of the session at the scheduled time. This training is live and interactive; it is not recorded to be watched at any other time.
Registered participants will receive the information they need to connect to the ZOOM meeting from the facilitator Sumer Smith (sumer.smith@louisville.edu). 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!
The registration cut-off date for this event is Monday, September 11, 2023
Contact the KCM at kcm@nku.edu or 859-572-7690, or the facilitator Sumer Smith at sumer.smith@louisville.edu with any questions.

When you register for this event, you are creating a KCM member record and agree to becoming a "Friend of the KCM" and receive periodic emails from us including our bi-monthly newsletter and emails about future KCM professional learning events. We ask that anyone who attends a KCM professional learning event remain a Friend of the KCM for at least one year following the event.

When you register for this event, please do the following:

For any teacher who has attended a KCM event in the past, your work email is already in our system; enter that same email at the start and everything else should auto-populate. Please update anything else that has changed or is missing.
If you attended a KCM event in the past, but have changed school districts, schools or organizations, please call the KCM at 859-572-7690 or email us at kcm@nku.edu so we can update your KCM member record.
Kentucky public school educators must use their "firstname.lastname@(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 and put OTHER for school district and N/A for county.
If you teach outside of Kentucky, please include your state abbreviation in parenthesis.
after the name of your school district and school (or organization) and enter N/A for County.

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.

The KCM does not sell or provide our member contact lists to anyone. The information provided on your registration is used only by the KCM.
The KCM is proud to support Kentucky Math Interventionists! This collegial learning and support opportunity is open to all Kentucky K-8 math intervention teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers.

**COURSE TITLE:** Kentucky Math Interventionist Collegial Support

**COURSE DESCRIPTION:**

This Collegial Support Group for Kentucky Math Interventionists includes the following:

- 7 one-hour monthly ZOOM meetings where participants can interact with fellow math interventionists and learn from KCM Regional Consultant Lisa Riggs and other special guest speakers.
- A monthly newsletter filled with teacher tips and intervention resources will be emailed to all registered Kentucky math interventionists.
- Active participants will receive KCM Math Teacher Support Kits filled with books and manipulatives to support their intervention work.
- Because virtual is great but in-person is better, the KCM will hold a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2024 (date and time TBD).

**COST:** FREE for Kentucky math interventionists

**LOCATION:** Virtual ZOOM meetings

**TIME:** 11:30 am - 12:30 pm Eastern

**DATES:** 7 Select WEDNESDAYS September 2023 through April 2024

1. September 13, 2023
2. October 18, 2023
3. November 29, 2023
4. January 17, 2024
5. February 21, 2024
6. March 20, 2024
7. April 17, 2024

Kentucky math interventionists may register at any time. You do not need to be able to attend every virtual ZOOM meeting to register and participate. However, Math Teacher Support Kits will only be mailed to active participants.

There is no registration limit for this collegial support group. Please share this professional learning event with any Kentucky math interventionists you know.

All registered participants will receive the monthly newsletter and the ZOOM meeting link via an email from KCM Regional Consultant Lisa Riggs. Those emails may go to your junk or spam folder so check there regularly after registering for this event.

The KCM asks that participants in the monthly ZOOM meetings list their full name in the ZOOM meeting - or their first initial and last name - so the KCM can record attendance. Participants in the monthly ZOOM meetings will be emailed a KCM Attendance Certificate for each session they attend,
We hope you will take advantage of this wonderful professional learning opportunity designed specifically for Kentucky math intervention teachers and add those Wednesday dates to your work calendar!
Imagine a school where parents are true partners in mathematical learning. Now learn how to make that vision a reality. This course will empower you to host an AMAZING Family Math Night at your school. Course participants even get to choose from a KCM approved list of math manipulatives and order up to $250 in materials to use at their Family Math Night.

**COURSE TITLE:** Family Math K-6: Empowering Parents as Partners

**COURSE DESCRIPTION:**
Families are critical partners in students' developing mathematical knowledge. Yet, so many parents, grandparents, and guardians feel frustrated and overwhelmed when trying to help their child with math. For this course, the KCM utilizes the book Partnering With Parents in Elementary School Math: A Guide for Teachers and Leaders; this wonderful resource provides educators with guidance on how to communicate with families about their child's math learning. Each participant receives a copy of this book.

During this course, participants will:
* explore research on family engagement and how to educate parents concerning math fluency and the Kentucky Academic Standards.
* discuss family math resources and how to conduct a family math night event.
* host one Family Math Night at their own school.
* receive up to $250 of manipulatives and activity resources for their family math night. Participants will choose the materials and resources they need from a list of approved options provided by the KCM.

**COST:** $50 (This course is available for KENTUCKY K-6 educators only)

**LOCATION:** Virtual ZOOM meetings

**TIME:** 9:30 AM - 11:00 AM Eastern (8:30 am - 10:00 am Central)

**DATES:** 5 virtual 90-minute sessions on select FRIDAYS, plus 1 Family Math Night implementation
1. September 8, 2023
2. September 22, 2023
3. January 5, 2024
4. January 26, 2024
5. April 26, 2024

Participants must be able to attend all 5 virtual ZOOM meetings as scheduled above. These virtual sessions are live and interactive meetings; they are not recorded to be watched at any other time.

Registration closes on Thursday, August 17, 2023. Participants must register by 11:59 pm on Thursday, August 17 in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.
Please note:
This KCM professional learning event is for KENTUCKY K-6 educators only. Participants commit to implementing one Family Math Night event at their school during the 2023-24 school year. Each school will receive up to $250 of materials to use at their Family Math Night event.

Since spots in this course are limited, we ask that each school register just one participant - which should be the person who will be leading the planning and implementation of the Family Math Night event at their school. Should a school want to have more than one person attend this course, they should contact the KCM at 859-572-7690 or kcm@nku.edu to discuss their situation. The KCM will determine the best way to handle any additional registrations needed for that school.

The $50 registration fee is non-refundable once the book is ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

Information regarding Purchase Orders and KCM Invoices:
* You may register for any KCM course without a PO; however, please note that many Kentucky school districts require you obtain a PO before they will pay the invoice. Please obtain a PO if one is required by your school or district.
* Only the registered participant will be emailed a copy of the course invoice. It is the participant's responsibility to forward that invoice on to the appropriate person at their school or district for payment.
* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.
COURSE TITLE: Add+VantageMR® (AVMR) Course 1 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students’ foundational knowledge in counting, numeral identification, structuring numbers to 20, and addition and subtraction.

* Participants will receive an AVMR® Course 1 kit and complete Add+Vantage MR® Course 1 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* AVMR® Course 1 is a prerequisite for AVMR® Course 2
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 1 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 1 - 2023 SCHEDULE:
* This course meets on 6 Fridays starting in July and ending in October.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Friday, July 14, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
2. Friday, July 14, 2023: 1:30 - 3:30 pm EDT
3. Friday, July 21, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
4. Friday, July 21, 2023: 1:30 - 3:30 pm EDT
5. Friday, July 28, 2023 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
6. Friday, July 28, 2023: 1:30 - 3:30 pm EDT
7. Friday, September 8, 2023: 12 - 2 pm EDT
8. Friday, September 15, 2023: 12 - 2 pm EDT
9. Friday, October 20, 2023: 9 am - 4 pm (In-person in Elizabethtown, KY - venue name)
Registration closes on Friday, June 30, 2023. Participants must register by 11:59 pm on Friday, June 30, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants must register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $600 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place, keeping in mind that the same person must attend all 8 virtual sessions. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.

Lexington, Kentucky: Venue name and address will be emailed to all registered participants

09:00 AM - 04:00 PM EST
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Do your students struggle to make sense of word problems? In this 2-day course, learn proven strategies for problem solving that will be a game changer for your K-2 students! Participants will receive over $200 in classroom materials and books.

COURSE TITLE: Unlocking Student Thinking (K-2): The Art of Math Problem Solving
This course was previously part of the KCM's "Comprehensive Course for Primary Grades K-2"

COURSE DESCRIPTION:
Learn strategies and gain resources to help students make sense of different problem structures, equivalence, and more.
* Explore the various structures of story problems and the key role algebraic reasoning plays as students make sense of problems and persevere in solving them.
* Supplement your current curriculum by asking impactful questions that support student thinking and promote problem solving.
* Learn instructional routines that support students to enter and work through problems.
* Materials include Good Questions: Great Ways to Differentiate Mathematics Instruction in the Standards-Based Classroom, Routines for Reasoning, math balances, unifix cubes, and more!

COST: $200 per participant

DATES:
1. Tuesday, September 19, 2023
2. Tuesday, September 26, 2023
TIME: 9 am - 4 pm Eastern
LOCATION: Lexington, Kentucky (Venue name and address will be emailed to all registered participants)

Registration closes on Tuesday, August 22, 2023. Participants must register by 11:59 pm on Tuesday, August 22, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $200 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Are your middle school students struggling with mathematical reasoning? Look no further! You have found a professional development course to support your efforts. The resources and training provided during the KCM's “Building Numeracy with Middle Grades Students” course will empower you to take student learning and understanding to the next level.

**COURSE TITLE:** Building Numeracy with Middle Grades Students (5-8)

**COURSE DESCRIPTION:**
Students often struggle to further their mathematical thinking from the intermediate grades to the rigors of middle school. But when students develop their numeracy skills and grow their toolbox of mathematical reasoning strategies, they increase their confidence to do sophisticated mathematics. During this hybrid course, teachers will explore the power of representations, problems strings, and the use of reasoning strategies to develop numeracy, proportional reasoning, and algebraic thinking in their middle school students.

In this course, participants will:
* learn teaching strategies for helping students develop the multiplicative and proportional reasoning needed for middle school math.
* be provided with games such as 24 Game and manipulatives such as Cuisenaire Rods to develop numeracy through modeling number and quantitative relationships.
* explore Desmos activities designed to illuminate key ratio and proportion concepts.
* receive several books including Building Powerful Numeracy for Middle and High School Students, Lessons and Activities for Building Powerful Numeracy, Figuring Out Fluency, and Elementary and Middle School Mathematics: Teaching Developmentally.

Please note:
This is a 5-Session HYBRID course:
* The first 2 sessions are full-day, in-person sessions that meet in July
* The last 3 sessions are half-day virtual sessions that will meet via ZOOM on school days.
* Participants should not be working with students during the half-day virtual sessions and should obtain a half-day sub for those 3 sessions if necessary.

**COST:** $200 per participant

**DATES & TIMES:**
1. Wednesday, July 12, 2023 = IN PERSON: 9 am - 4 pm Eastern (8 am - 3 pm Central)
2. Thursday, July 13, 2023 = IN PERSON: 9 am - 4 pm Eastern (8 am - 3 pm Central)
3. Tuesday, September 19, 2023 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
4. Tuesday, October 17, 2023 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
5. Tuesday, January 16, 2024 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
LOCATION:
The 2 in-person days will meet in London, KY, which is in Laurel County KY - Southeastern KY.
The 3 virtual half-days will meet via ZOOM.

Registration closes on Thursday, July 6, 2023. Participants must register by 11:59 pm on Thursday, July 6, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

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Lexington, Kentucky: Venue name and address will be emailed to all registered participants
09:00 AM - 04:00 PM EST
Kentucky Center for Mathematics , 859-572-7690
kcm@nku.edu

Do your students struggle to make sense of word problems? In this 2-day course, learn proven strategies for problem solving that will be a game changer for your K-2 students! Participants will receive over $200 in classroom materials and books.

COURSE TITLE: Unlocking Student Thinking (K-2): The Art of Math Problem Solving
This course was previously part of the KCM's "Comprehensive Course for Primary Grades K-2"

COURSE DESCRIPTION:
Learn strategies and gain resources to help students make sense of different problem structures, equivalence, and more.
* Explore the various structures of story problems and the key role algebraic reasoning plays as students make sense of problems and persevere in solving them.
* Supplement your current curriculum by asking impactful questions that support student thinking and promote problem solving.
* Learn instructional routines that support students to enter and work through problems.
* Materials include Good Questions: Great Ways to Differentiate Mathematics Instruction in the Standards-Based Classroom, Routines for Reasoning, math balances, unifix cubes, and more!

COST: $200 per participant
DATES:
1. Tuesday, September 19, 2023
2. Tuesday, September 26, 2023
TIME: 9 am - 4 pm Eastern
LOCATION: Lexington, Kentucky (Venue name and address will be emailed to all registered participants)

Registration closes on Tuesday, August 22, 2023. Participants must register by 11:59 pm on Tuesday, August 22, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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school or district for payment.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Do you feel like you always run out of time to teach measurement and data? In this 2-day course, learn how to provide meaningful experiences throughout the school year! Join the KCM as we explore these domains, seeing ways to connect and embed these topics with other domains. You will leave with a box full of classroom tools and ready-to-use laminated resources. This is a course you don’t want to miss!

COURSE TITLE: Math Explorations in Measurement, Money, Time and Data K-2
This course was previously part of the KCM’s "Comprehensive Course for Primary Grades K-2"

COURSE DESCRIPTION:
Get the tools you need to teach data and measurement including measuring length, time, money and more!
* Analyze the Kentucky Academic Standards, exploring the topics of measurement, money, time, and data, seeing ways to incorporate instruction in these topics throughout the school year.
* Many popular curriculums are not well-aligned to the KAS in these domains; learn ways to supplement your curriculum.
* Explore a strategic instructional sequence for teaching measurement.
* Materials include children’s books, clocks, number line with K-2 card set, and more!

COST: $200 per participant
DATES:
1. Tuesday, October 17, 2023
2. Tuesday, October 24, 2023
TIME: 9 am - 4 pm Eastern
LOCATION: Lexington, Kentucky (Venue name and address will be emailed to all registered participants)

Registration closes on Tuesday, September 19, 2023. Participants must register by 11:59 pm on Tuesday, September 19, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Building Numeracy with Middle Grades Students (5-8) - London, KY - Erron Prickett (2023-24)

In-person days on July 12 & 13 = Country Inn & Suites, London, KY; Virtual half-days = ZOOM
2035 W Highway 192
London, KY 40741
IN-PERSON July 12 & 13, 2023=9am-4pm; VIRTUAL sessions=8:30 -11:30 am (E)
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Are your middle school students struggling with mathematical reasoning? Look no further! You have found a professional development course to support your efforts. The resources and training provided during the KCM's “Building Numeracy with Middle Grades Students” course will empower you to take student learning and understanding to the next level.

COURSE TITLE: Building Numeracy with Middle Grades Students (5-8)

COURSE DESCRIPTION:
Students often struggle to further their mathematical thinking from the intermediate grades to the rigors of middle school. But when students develop their numeracy skills and grow their toolbox of mathematical reasoning strategies, they increase their confidence to do sophisticated mathematics. During this hybrid course, teachers will explore the power of representations, problems strings, and the use of reasoning strategies to develop numeracy, proportional reasoning, and algebraic thinking in their middle school students.

In this course, participants will:
* learn teaching strategies for helping students develop the multiplicative and proportional reasoning needed for middle school math.
* be provided with games such as 24 Game and manipulatives such as Cuisenaire Rods to develop numeracy through modeling number and quantitative relationships.
* explore Desmos activities designed to illuminate key ratio and proportion concepts.
* receive several books including Building Powerful Numeracy for Middle and High School Students, Lessons and Activities for Building Powerful Numeracy, Figuring Out Fluency, and Elementary and Middle School Mathematics: Teaching Developmentally.

Please note:
This is a 5-Session HYBRID course:
* The first 2 sessions are full-day, in-person sessions that meet in July
* The last 3 sessions are half-day virtual sessions that will meet via ZOOM on school days.
* Participants should not be working with students during the half-day virtual sessions and should obtain a half-day sub for those 3 sessions if necessary.

COST: $200 per participant

DATES & TIMES:
1. Wednesday, July 12, 2023 = IN PERSON: 9 am - 4 pm Eastern (8 am - 3 pm Central)
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5. Tuesday, January 16, 2024 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
LOCATION:
The 2 in-person days will meet in London, KY, which is in Laurel County KY - Southeastern KY.
The 3 virtual half-days will meet via ZOOM.

Registration closes on Thursday, July 6, 2023. Participants must register by 11:59 pm on Thursday, July 6, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

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* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
The KCM is proud to support Kentucky Math Interventionists! This collegial learning and support opportunity is open to all Kentucky K-8 math intervention teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers.

**COURSE TITLE:** Kentucky Math Interventionist Collegial Support

**COURSE DESCRIPTION:**

This Collegial Support Group for Kentucky Math Interventionists includes the following:

* 7 one-hour monthly ZOOM meetings where participants can interact with fellow math interventionists and learn from KCM Regional Consultant Lisa Riggs and other special guest speakers.
* A monthly newsletter filled with teacher tips and intervention resources will be emailed to all registered Kentucky math interventionists.
* Active participants will receive KCM Math Teacher Support Kits filled with books and manipulatives to support their intervention work.
* Because virtual is great but in-person is better, the KCM will hold a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2024 (date and time TBD).

**COST:** FREE for Kentucky math interventionists

**LOCATION:** Virtual ZOOM meetings

**TIME:** 11:30 am - 12:30 pm Eastern

**DATES:** 7 Select WEDNESDAYS September 2023 through April 2024
1. September 13, 2023
2. October 18, 2023
3. November 29, 2023
4. January 17, 2024
5. February 21, 2024
6. March 20, 2024
7. April 17, 2024

Kentucky math interventionists may register at any time. You do not need to be able to attend every virtual ZOOM meeting to register and participate. However, Math Teacher Support Kits will only be mailed to active participants.

There is no registration limit for this collegial support group. Please share this professional learning event with any Kentucky math interventionists you know.

All registered participants will receive the monthly newsletter and the ZOOM meeting link via an email from KCM Regional Consultant Lisa Riggs. Those emails may go to your junk or spam folder so check there regularly after registering for this event.

The KCM asks that participants in the monthly ZOOM meetings list their full name in the ZOOM meeting - or their first initial and last name - so the KCM can record attendance. Participants in the monthly ZOOM meetings will be emailed a KCM Attendance Certificate for each session they attend.
We hope you will take advantage of this wonderful professional learning opportunity designed specifically for Kentucky math intervention teachers and add those Wednesday dates to your work calendar!
6/7/23: This cohort of AVMR Course 1 is full and not accepting any more registrations. We apologize for the inconvenience this causes anyone. We look forward to serving you in the future. Click here to be added to a wait list for this course.

Do you struggle to know exactly where your students are in their journey towards mathematical fluency? AVMR Course 1 is just what you have been looking for. Join KCM experts who will guide you toward a deeper understanding of how students develop number sense. Be ready to transform your math classroom!

COURSE TITLE: Add+VantageMR® (AVMR) Course 1 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students’ foundational knowledge in counting, numeral identification, structuring numbers to 20, and addition and subtraction.

* Participants will receive an AVMR® Course 1 kit and complete Add+Vantage MR® Course 1 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* AVMR® Course 1 is a prerequisite for AVMR® Course 2
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 1 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 1 - 2023 SCHEDULE:

* This course meets on 6 Fridays starting in July and ending in October.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Friday, July 14, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
2. Friday, July 14, 2023: 1:30 - 3:30 pm EDT
3. Friday, July 21, 2023: 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
4. Friday, July 21, 2023: 1:30 - 3:30 pm EDT
5. Friday, July 28, 2023 9 - 11 am EDT (1 hour independent work and lunch break from 11:00 am - 1:30 pm).
6. Friday, July 28, 2023: 1:30 - 3:30 pm EDT
7. Friday, September 8, 2023: 12 - 2 pm EDT
8. Friday, September 15, 2023: 12 - 2 pm EDT
9. Friday, October 20, 2023: 9 am - 4 pm (In-person in Elizabethtown, KY - venue name)
Registration closes on Friday, June 30, 2023. Participants must register by 11:59 pm on Friday, June 30, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants must register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nk.edu or call us at 859-572-7690 if you need that change made.

The $600 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place, keeping in mind that the same person must attend all 8 virtual sessions. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nk.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Do you feel like you always run out of time to teach measurement and data? In this 2-day course, learn how to provide meaningful experiences throughout the school year! Join the KCM as we explore these domains, seeing ways to connect and embed these topics with other domains. You will leave with a box full of classroom tools and ready-to-use laminated resources. This is a course you don't want to miss!

COURSE TITLE: Math Explorations in Measurement, Money, Time and Data K-2
This course was previously part of the KCM's "Comprehensive Course for Primary Grades K-2"

COURSE DESCRIPTION:
Get the tools you need to teach data and measurement including measuring length, time, money and more!
* Analyze the Kentucky Academic Standards, exploring the topics of measurement, money, time, and data, seeing ways to incorporate instruction in these topics throughout the school year.
* Many popular curriculums are not well-aligned to the KAS in these domains; learn ways to supplement your curriculum.
* Explore a strategic instructional sequence for teaching measurement.
* Materials include children's books, clocks, number line with K-2 card set, and more!

COST: $200 per participant
DATES:
1. Tuesday, October 17, 2023
2. Tuesday, October 24, 2023
TIME: 9 am - 4 pm Eastern
LOCATION: Lexington, Kentucky (Venue name and address will be emailed to all registered participants)

Registration closes on Tuesday, September 19, 2023. Participants must register by 11:59 pm on Tuesday, September 19, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $200 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Add+VantageMR® (AVMR) Course 2 PLUS - VIRTUAL & ETOWN - Lisa Riggs (2023-24)

8 virtual sessions via ZOOM; 1 in-person day in Elizabethtown, KY
Venue name & address will be given to all registered participants

8 Virtual Sessions: 12-2 pm (E); March 2024 in-person day: 9am-4pm (E)
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Are you ready to grow your knowledge about students' mathematical development?
Continue your professional journey with AVMR Course 2 PLUS to learn assessments and strategies for advancing students' understanding of place value and multiplicative reasoning. Learn the power of mental math for developing number sense!

*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR®(AVMR) Course 2.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students' foundational knowledge in place value and multiplication & division.

* Participants will receive an AVMR® Course 2 kit and complete Add+Vantage MR® Course 2 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 2 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 2 - 2023-2024 SCHEDULE:
* This course meets on 4 Wednesdays and 5 Fridays starting in November 2023 and ending in March 2024.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Wednesday, November 1, 2023: 12 - 2 pm Eastern
2. Friday, November 3, 2023: 12 - 2 pm Eastern
3. Wednesday, December 6, 2023: 12 - 2 pm Eastern
4. Friday, December 8, 2023: 12 - 2 pm Eastern
5. Wednesday, January 17, 2024: 12 - 2 pm Eastern
6. Friday, January 19, 2024: 12 - 2 pm Eastern
7. Wednesday, February 7, 2024: 12 - 2 pm Eastern
8. Friday, February 9, 2024: 12 - 2 pm Eastern
9. Friday, March 22, 2024: 9 am - 4 pm Eastern (In-person in Elizabethtown, KY - venue)
name & address will be emailed to all registered participants)

Registration closes on Wednesday, September 20, 2023 to allow 6 weeks to order the AVMR 2 kits required. Participants must register by 11:59 pm on Wednesday, September 20, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice to July 3, 2023 if needed. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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Add+VantageMR® (AVMR) Course 2 PLUS - VIRTUAL & ETOWN - Lisa Riggs (2023-24)

8 virtual sessions via ZOOM; 1 in-person day in Elizabethtown, KY

Venue name & address will be given to all registered participants

8 Virtual Sessions: 12-2 pm (E); March 2024 in-person day: 9am-4pm (E)
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

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Continue your professional journey with AVMR Course 2 PLUS to learn assessments and strategies for advancing students' understanding of place value and multiplicative reasoning. Learn the power of mental math for developing number sense!

*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR®(AVMR) Course 2.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students' foundational knowledge in place value and multiplication & division.

* Participants will receive an AVMR® Course 2 kit and complete Add+Vantage MR® Course 2 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 2 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 2 - 2023-2024 SCHEDULE:
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SESSION DATES AND TIMES:
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7. Wednesday, February 7, 2024: 12 - 2 pm Eastern
8. Friday, February 9, 2024: 12 - 2 pm Eastern
9. Friday, March 22, 2024: 9 am - 4 pm Eastern (In-person in Elizabethtown, KY - venue
name & address will be emailed to all registered participants)

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Explorations in 4th & 5th Grade Fractions - Louisville, KY - Cindy Aossey (2023-24)
University of Louisville Conference Center, ShelbyHurst Campus
Days 1 & 2 = BURHANS HALL, Room 207; Day 3 = FOUNDERS UNION BUILDING, Room 136B
Louisville, KY 40222
09:00 AM - 04:00 PM EST
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Do your students struggle to make sense of fractions and fraction operations?
Manipulatives and rich tasks provide students with the tools and experiences to see
fractions as numbers and make sense of fraction operations. Join the KCM in a deep
dive into fractions that will change how you think about and teach fraction operations!

COURSE TITLE: Explorations in 4th & 5th Grade Fractions

COURSE DESCRIPTION:
Too often fractions are considered scary or difficult. But fractions are numbers! By
helping students to understand that fractions are numbers that expand our number
system, we can help them connect their understanding of whole number operations to
fraction operations.

During this 3-day course, teachers will:

* explore instructional strategies such as the use of manipulatives, fraction models
  (including number lines) and rich tasks that help students see fractions as numbers and understand fraction operations.
* deepen their understanding of the Kentucky Academic Standards for Mathematics,
  particularly the grades 4 and 5 fractions standards, seeing them as part of a progression starting in first grade and continuing into middle school.
* receive ready-to-use materials and manipulatives, including Pattern blocks, Cuisenaire Rods, books and games.

COST: $300 per participant

DATES:
1) Wednesday, November 8, 2023
2) Thursday, November 9, 2023
3) Thursday, January 25, 2024.
TIME: 9 am - 4 pm Eastern
LOCATION: Louisville, KY
University of Louisville Conference Center, ShelbyHurst Campus, 450 N Whittington Pkwy, Louisville, KY 40222
Days 1 & 2 = BURHANS HALL, Room 207
Day 3 = FOUNDERS UNION BUILDING, Room 136B

Registration closes on Wednesday, October 4, 2023. Participants must register by
11:59 pm on Wednesday, October 4, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM
will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course
meets during the 2023-24 fiscal school year, the KCM can change the date on any
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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Do your students struggle to make sense of fractions and fraction operations? Manipulatives and rich tasks provide students with the tools and experiences to see fractions as numbers and make sense of fraction operations. Join the KCM in a deep dive into fractions that will change how you think about and teach fraction operations!

**COURSE TITLE: Explorations in 4th & 5th Grade Fractions**

**COURSE DESCRIPTION:**
Too often fractions are considered scary or difficult. But fractions are numbers! By helping students to understand that fractions are numbers that expand our number system, we can help them connect their understanding of whole number operations to fraction operations.

During this 3-day course, teachers will:

* explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks that help students see fractions as numbers and understand fraction operations.
* deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards, seeing them as part of a progression starting in first grade and continuing into middle school.
* receive ready-to-use materials and manipulatives, including Pattern blocks, Cuisenaire Rods, books and games.

**COST:** $300 per participant

**DATES:**
1) Wednesday, November 8, 2023
2) Thursday, November 9, 2023
3) Thursday, January 25, 2024.

**TIME:** 9 am - 4 pm Eastern

**LOCATION:** Louisville, KY
University of Louisville Conference Center, ShelbyHurst Campus, 450 N Whittington Pkwy, Louisville, KY 40222

Days 1 & 2 = BURHANS HALL, Room 207
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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Geometry is a part of every student’s curriculum from Kindergarten through 12th Grade and beyond. The primary grades geometry standards lay the foundation for students to become confident and successful math people. In this 1-day course, participants will receive manipulatives, tools and resources to give their students the best foundation possible. This course is for all K-2 teachers and the instructional leaders who support them.

COURSE TITLE: Explorations in Geometry K-2

COURSE DESCRIPTION:
Playing in math class? Yes! When students “play” with and talk about shapes in 2 and 3 dimensions, they are actually developing their geometric reasoning! Geometry is a critical area spanning all elementary grade levels with connections to measurement, operations and algebraic thinking, and fractions.

In this course, participants will:
* receive the book Teaching Student-Centered Mathematics for grades K-2 and hands-on materials such as tangrams, 2D and 3D shapes.
* deepen their understanding of the Van Hiele Model of geometric reasoning and the Geometry Standards within the Kentucky Academic Standards for Mathematics.

COST: $100 per participant
DATES: Tuesday, November 14, 2023
TIME: 8:30 am - 3:30 pm EASTERN
LOCATION: Lexington, Kentucky (venue name and address will be emailed to all registered participants)

Registration closes on Tuesday, October 3, 2023. Participants must register by 11:59 pm on Tuesday, October 3, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

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* KCM Invoices are not mailed.

* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
The KCM is proud to support Kentucky Math Interventionists! This collegial learning and support opportunity is open to all Kentucky K-8 math intervention teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers.

COURSE TITLE: Kentucky Math Interventionist Collegial Support

COURSE DESCRIPTION:

This Collegial Support Group for Kentucky Math Interventionists includes the following:

* 7 one-hour monthly ZOOM meetings where participants can interact with fellow math interventionists and learn from KCM Regional Consultant Lisa Riggs and other special guest speakers.
* A monthly newsletter filled with teacher tips and intervention resources will be emailed to all registered Kentucky math interventionists.
* Active participants will receive KCM Math Teacher Support Kits filled with books and manipulatives to support their intervention work.
* Because virtual is great but in-person is better, the KCM will hold a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2024 (date and time TBD).

COST: FREE for Kentucky math interventionists
LOCATION: Virtual ZOOM meetings
TIME: 11:30 am - 12:30 pm Eastern
DATES: 7 Select WEDNESDAYS September 2023 through April 2024
1. September 13, 2023
2. October 18, 2023
3. November 29, 2023
4. January 17, 2024
5. February 21, 2024
6. March 20, 2024
7. April 17, 2024

Kentucky math interventionists may register at any time. You do not need to be able to attend every virtual ZOOM meeting to register and participate. However, Math Teacher Support Kits will only be mailed to active participants.

There is no registration limit for this collegial support group. Please share this professional learning event with any Kentucky math interventionists you know.

All registered participants will receive the monthly newsletter and the ZOOM meeting link via an email from KCM Regional Consultant Lisa Riggs. Those emails may go to your junk or spam folder so check there regularly after registering for this event.

The KCM asks that participants in the monthly ZOOM meetings list their full name in the ZOOM meeting - or their first initial and last name - so the KCM can record attendance. Participants in the monthly ZOOM meetings will be emailed a KCM Attendance Certificate for each session they attend,
We hope you will take advantage of this wonderful professional learning opportunity designed specifically for Kentucky math intervention teachers and add those Wednesday dates to your work calendar!
Are you ready to grow your knowledge about students’ mathematical development? Continue your professional journey with AVMR Course 2 PLUS to learn assessments and strategies for advancing students’ understanding of place value and multiplicative reasoning. Learn the power of mental math for developing number sense!

*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR®(AVMR) Course 2.

**COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS**

**COURSE DESCRIPTION:**

Learn assessments and teaching strategies for advancing students’ foundational knowledge in place value and multiplication & division.

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**COST: $600 per participant**

**AVMR COURSE 2 - 2023-2024 SCHEDULE:**

* This course meets on 4 Wednesdays and 5 Fridays starting in November 2023 and ending in March 2024.
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**SESSION DATES AND TIMES:**

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name & address will be emailed to all registered participants)

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Add+VantageMR® (AVMR) Course 2 PLUS - VIRTUAL & ETOWN - Lisa Riggs (2023-24)

8 virtual sessions via ZOOM; 1 in-person day in Elizabethtown, KY
Venue name & address will be given to all registered participants.

8 Virtual Sessions: 12-2 pm (E); March 2024 in-person day: 9am-4pm (E)
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

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*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR® (AVMR) Course 2.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:
Learn assessments and teaching strategies for advancing students’ foundational knowledge in place value and multiplication & division.

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COST: $600 per participant

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Registration closes on Wednesday, September 20, 2023 to allow 6 weeks to order the AVMR 2 kits required. Participants must register by 11:59 pm on Wednesday, September 20, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice to July 3, 2023 if needed. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $600 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place, keeping in mind that the same person must attend all 8 virtual sessions. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

Information regarding Purchase Orders and KCM Invoices:
* You may register for any KCM course without a PO; however, please note that many Kentucky school districts require you obtain a PO before they will pay the invoice. Please obtain a PO if one is required by your school or district.
* Only the registered participant will be emailed a copy of the course invoice. It is the participant's responsibility to forward that invoice on to the appropriate person at their school or district for payment.
* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Imagine a school where parents are true partners in mathematical learning. Now learn how to make that vision a reality. This course will empower you to host an AMAZING Family Math Night at your school. Course participants even get to choose from a KCM approved list of math manipulatives and order up to $250 in materials to use at their Family Math Night.

COURSE TITLE: Family Math K-6: Empowering Parents as Partners

COURSE DESCRIPTION:
Families are critical partners in students' developing mathematical knowledge. Yet, so many parents, grandparents, and guardians feel frustrated and overwhelmed when trying to help their child with math. For this course, the KCM utilizes the book Partnering With Parents in Elementary School Math: A Guide for Teachers and Leaders; this wonderful resource provides educators with guidance on how to communicate with families about their child's math learning. Each participant receives a copy of this book.

During this course, participants will:
* explore research on family engagement and how to educate parents concerning math fluency and the Kentucky Academic Standards.
* discuss family math resources and how to conduct a family math night event.
* host one Family Math Night at their own school.
* receive up to $250 of manipulatives and activity resources for their family math night. Participants will choose the materials and resources they need from a list of approved options provided by the KCM.

COST: $50 (This course is available for KENTUCKY K-6 educators only)
LOCATION: Virtual ZOOM meetings
TIME: 9:30 - 11:00 am Eastern (8:30 am - 10:00 am Central)
DATES: 5 virtual 90-minute sessions on select FRIDAYS, plus 1 Family Math Night implementation
1. September 8, 2023
2. September 22, 2023
3. January 5, 2024
4. January 26, 2024
5. April 26, 2024

Participants must be able to attend all 5 virtual ZOOM meetings as scheduled above. These virtual sessions are live and interactive meetings; they are not recorded to be watched at any other time.

Registration closes on Thursday, August 17, 2023. Participants must register by 11:59 pm on Thursday, August 17 in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.
Please note:
This KCM professional learning event is for KENTUCKY K-6 educators only. Participants commit to implementing one Family Math Night event at their school during the 2023-24 school year. Each school will receive up to $250 of materials to use at their Family Math Night event.

Since spots in this course are limited, we ask that each school register just one participant - which should be the person who will be leading the planning and implementation of the Family Math Night event at their school. Should a school want to have more than one person attend this course, they should contact the KCM at 859-572-7690 or kcm@nknu.edu to discuss their situation. The KCM will determine the best way to handle any additional registrations needed for that school.

The $50 registration fee is non-refundable once the book is ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nknu.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.

Please contact the KCM at 859-572-7690 or kcm@nknu.edu with any questions.
Are your middle school students struggling with mathematical reasoning? Look no further! You have found a professional development course to support your efforts. The resources and training provided during the KCM's “Building Numeracy with Middle Grades Students” course will empower you to take student learning and understanding to the next level.

**COURSE TITLE: Building Numeracy with Middle Grades Students (5-8)**

**COURSE DESCRIPTION:**
Students often struggle to further their mathematical thinking from the intermediate grades to the rigors of middle school. But when students develop their numeracy skills and grow their toolbox of mathematical reasoning strategies, they increase their confidence to do sophisticated mathematics. During this hybrid course, teachers will explore the power of representations, problems strings, and the use of reasoning strategies to develop numeracy, proportional reasoning, and algebraic thinking in their middle school students.

In this course, participants will:
* learn teaching strategies for helping students develop the multiplicative and proportional reasoning needed for middle school math.
* be provided with games such as 24 Game and manipulatives such as Cuisenaire Rods to develop numeracy through modeling number and quantitative relationships.
* explore Desmos activities designed to illuminate key ratio and proportion concepts.
* receive several books including Building Powerful Numeracy for Middle and High School Students, Lessons and Activities for Building Powerful Numeracy, Figuring Out Fluency, and Elementary and Middle School Mathematics: Teaching Developmentally.

Please note:
This is a 5-Session HYBRID course:
* The first 2 sessions are full-day, in-person sessions that meet in July
* The last 3 sessions are half-day virtual sessions that will meet via ZOOM on school days.
* Participants should not be working with students during the half-day virtual sessions and should obtain a half-day sub for those 3 sessions if necessary.

**COST:** $200 per participant

**DATES & TIMES:**
1. Wednesday, July 12, 2023 = IN PERSON: 9 am - 4 pm Eastern (8 am - 3 pm Central)
2. Thursday, July 13, 2023 = IN PERSON: 9 am - 4 pm Eastern (8 am - 3 pm Central)
3. Tuesday, September 19, 2023 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
4. Tuesday, October 17, 2023 = VIRTUAL: 8:30 -11:30 am Eastern (7:30 - 10:30 am Central)
5. Tuesday, January 16, 2024 = VIRTUAL: 8:30 - 11:30 am Eastern (7:30 - 10:30 am Central)
LOCATION:
The 2 in-person days will meet in London, KY, which is in Laurel County KY -
Southeastern KY.
VENUE for In-person days on 7/12 & 7/13 = Country Inn & Suites, London. 2035 W
The 3 virtual half-days will meet via ZOOM.

Registration closes on Thursday, July 6, 2023. Participants must register by 11:59 pm
on Thursday, July 6, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM
will be unable to accept any additional participants.

Because participants must register during the 2022-23 fiscal school year, but this course
meets during the 2023-24 fiscal school year, the KCM can change the date on any
invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us
at 859-572-7690 if you need that change made.

The $200 registration fee is non-refundable once materials are ordered. If you register
and then become unable to attend for any reason, your school or district may send
someone else to attend in your place. Regardless of whether or not a replacement is
sent, the course invoice will still need to be paid.

Information regarding Purchase Orders and KCM Invoices:
* You may register for any KCM course without a PO; however, please note that many
Kentucky school districts require you obtain a PO before they will pay the invoice.
Please obtain a PO if one is required by your school or district.
* Only the registered participant will be emailed a copy of the course invoice. It is the
participant's responsibility to forward that invoice on to the appropriate person at their
school or district for payment.
* Participants may ask that a copy of their invoice be emailed to another email address;
contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as
soon as the course is finished.
Kentucky Math Interventionist Collegial Support- VIRTUAL - Lisa Riggs (2023-24)
Virtual ZOOM meetings
11:30 AM - 12:30 PM EST
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

The KCM is proud to support Kentucky Math Interventionists! This collegial learning and support opportunity is open to all Kentucky K-8 math intervention teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers.

COURSE TITLE: Kentucky Math Interventionist Collegial Support

COURSE DESCRIPTION:

This Collegial Support Group for Kentucky Math Interventionists includes the following:

* 7 one-hour monthly ZOOM meetings where participants can interact with fellow math interventionists and learn from KCM Regional Consultant Lisa Riggs and other special guest speakers.
* A monthly newsletter filled with teacher tips and intervention resources will be emailed to all registered Kentucky math interventionists.
* Active participants will receive KCM Math Teacher Support Kits filled with books and manipulatives to support their intervention work.
* Because virtual is great but in-person is better, the KCM will hold a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2024 (date and time TBD).

COST: FREE for Kentucky math interventionists
LOCATION: Virtual ZOOM meetings
TIME: 11:30 am - 12:30 pm Eastern
DATES: 7 Select WEDNESDAYS September 2023 through April 2024
1. September 13, 2023
2. October 18, 2023
3. November 29, 2023
4. January 17, 2024
5. February 21, 2024
6. March 20, 2024
7. April 17, 2024

Kentucky math interventionists may register at any time. You do not need to be able to attend every virtual ZOOM meeting to register and participate. However, Math Teacher Support Kits will only be mailed to active participants.

There is no registration limit for this collegial support group. Please share this professional learning event with any Kentucky math interventionists you know.

All registered participants will receive the monthly newsletter and the ZOOM meeting link via an email from KCM Regional Consultant Lisa Riggs. Those emails may go to your junk or spam folder so check there regularly after registering for this event.

The KCM asks that participants in the monthly ZOOM meetings list their full name in the ZOOM meeting - or their first initial and last name - so the KCM can record attendance. Participants in the monthly ZOOM meetings will be emailed a KCM Attendance Certificate for each session they attend,
We hope you will take advantage of this wonderful professional learning opportunity designed specifically for Kentucky math intervention teachers and add those Wednesday dates to your work calendar!
COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students' foundational knowledge in place value and multiplication & division.

* Participants will receive an AVMR® Course 2 kit and complete Add+Vantage MR® Course 2 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 2 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 2 - 2023-2024 SCHEDULE:
* This course meets on 4 Wednesdays and 5 Fridays starting in November 2023 and ending in March 2024.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Wednesday, November 1, 2023: 12 - 2 pm Eastern
2. Friday, November 3, 2023: 12 - 2 pm Eastern
3. Wednesday, December 6, 2023: 12 - 2 pm Eastern
4. Friday, December 8, 2023: 12 - 2 pm Eastern
5. Wednesday, January 17, 2024: 12 - 2 pm Eastern
6. Friday, January 19, 2024: 12 - 2 pm Eastern
7. Wednesday, February 7, 2024: 12 - 2 pm Eastern
8. Friday, February 9, 2024: 12 - 2 pm Eastern
9. Friday, March 22, 2024: 9 am - 4 pm Eastern (In-person in Elizabethtown, KY - venue
Registration closes on Wednesday, September 20, 2023 to allow 6 weeks to order the AVMR 2 kits required. Participants must register by 11:59 pm on Wednesday, September 20, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice to July 3, 2023 if needed. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $600 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place, keeping in mind that the same person must attend all 8 virtual sessions. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Are you ready to grow your knowledge about students' mathematical development? Continue your professional journey with AVMR Course 2 PLUS to learn assessments and strategies for advancing students' understanding of place value and multiplicative reasoning. Learn the power of mental math for developing number sense!

*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR®(AVMR) Course 2.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students’ foundational knowledge in place value and multiplication & division.

* Participants will receive an AVMR® Course 2 kit and complete Add+Vantage MR® Course 2 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 2 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 2 - 2023-2024 SCHEDULE:

* This course meets on 4 Wednesdays and 5 Fridays starting in November 2023 and ending in March 2024.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Wednesday, November 1, 2023: 12 - 2 pm Eastern
2. Friday, November 3, 2023: 12 - 2 pm Eastern
3. Wednesday, December 6, 2023: 12 - 2 pm Eastern
4. Friday, December 8, 2023: 12 - 2 pm Eastern
5. Wednesday, January 17, 2024: 12 - 2 pm Eastern
6. Friday, January 19, 2024: 12 - 2 pm Eastern
7. Wednesday, February 7, 2024: 12 - 2 pm Eastern
8. Friday, February 9, 2024: 12 - 2 pm Eastern
9. Friday, March 22, 2024: 9 am - 4 pm Eastern (In-person in Elizabethtown, KY - venue
name & address will be emailed to all registered participants)

Registration closes on Wednesday, September 20, 2023 to allow 6 weeks to order the AVMR 2 kits required. Participants must register by 11:59 pm on Wednesday, September 20, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Do your students struggle to make sense of fractions and fraction operations? Manipulatives and rich tasks provide students with the tools and experiences to see fractions as numbers and make sense of fraction operations. Join the KCM in a deep dive into fractions that will change how you think about and teach fraction operations!

COURSE TITLE: Explorations in 4th & 5th Grade Fractions

COURSE DESCRIPTION:
Too often fractions are considered scary or difficult. But fractions are numbers! By helping students to understand that fractions are numbers that expand our number system, we can help them connect their understanding of whole number operations to fraction operations.

During this 3-day course, teachers will:

* explore instructional strategies such as the use of manipulatives, fraction models (including number lines) and rich tasks that help students see fractions as numbers and understand fraction operations.
* deepen their understanding of the Kentucky Academic Standards for Mathematics, particularly the grades 4 and 5 fractions standards, seeing them as part of a progression starting in first grade and continuing into middle school.
* receive ready-to-use materials and manipulatives, including Pattern blocks, Cuisenaire Rods, books and games.

COST: $300 per participant

DATES:
1) Wednesday, November 8, 2023
2) Thursday, November 9, 2023
3) Thursday, January 25, 2024.

TIME: 9 am - 4 pm Eastern

LOCATION: Louisville, KY
University of Louisville Conference Center, ShelbyHurst Campus, 450 N Whittington Pkwy, Louisville, KY 40222
Days 1 & 2 = BURHANS HALL, Room 207
Day 3 = FOUNDERS UNION BUILDING, Room 136B

Registration closes on Wednesday, October 4, 2023. Participants must register by 11:59 pm on Wednesday, October 4, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Imagine a school where parents are true partners in mathematical learning. Now learn how to make that vision a reality. This course will empower you to host an AMAZING Family Math Night at your school. Course participants even get to choose from a KCM approved list of math manipulatives and order up to $250 in materials to use at their Family Math Night.

COURSE TITLE: Family Math K-6: Empowering Parents as Partners

COURSE DESCRIPTION:
Families are critical partners in students' developing mathematical knowledge. Yet, so many parents, grandparents and guardians feel frustrated and overwhelmed when trying to help their child with math. For this course, the KCM utilizes the book Partnering With Parents in Elementary School Math: A Guide for Teachers and Leaders; this wonderful resource provides educators with guidance on how to communicate with families about their child's math learning. Each participant receives a copy of this book.

During this course, participants will:
* explore research on family engagement and how to educate parents concerning math fluency and the Kentucky Academic Standards.
* discuss family math resources and how to conduct a family math night event.
* host one Family Math Night at their own school.
* receive up to $250 of manipulatives and activity resources for their family math night. Participants will choose the materials and resources they need from a list of approved options provided by the KCM.

COST: $50  (This course is available for KENTUCKY K-6 educators only)

LOCATION: Virtual ZOOM meetings
TIME: 9:30 - 11:00 am Eastern (8:30 am - 10:00 am Central)
DATES: 5 virtual 90-minute sessions on select FRIDAYS, plus 1 Family Math Night implementation
1. September 8, 2023
2. September 22, 2023
3. January 5, 2024
4. January 26, 2024
5. April 26, 2024

Participants must be able to attend all 5 virtual ZOOM meetings as scheduled above. These virtual sessions are live and interactive meetings; they are not recorded to be watched at any other time.

Registration closes on Thursday, August 17, 2023. Participants must register by 11:59 pm on Thursday, August 17 in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.
Please note:
This KCM professional learning event is for KENTUCKY K-6 educators only. Participants commit to implementing one Family Math Night event at their school during the 2023-24 school year. Each school will receive up to $250 of materials to use at their Family Math Night event.

Since spots in this course are limited, we ask that each school register just one participant - which should be the person who will be leading the planning and implementation of the Family Math Night event at their school. Should a school want to have more than one person attend this course, they should contact the KCM at 859-572-7690 or kcm@nku.edu to discuss their situation. The KCM will determine the best way to handle any additional registrations needed for that school.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.

Please contact the KCM at 859-572-7690 or kcm@nku.edu with any questions.
Did you know that Cuisenaire Rods can transform and deepen fractional understanding for students? Join the KCM in one of our most popular and impactful courses as we journey together towards deeper conceptual knowledge. This 1-day course will change the way you think about and teach fractions.

COURSE TITLE: Explorations in 3rd Grade Fractions

COURSE DESCRIPTION:
Grade 3 is a critical year in which students should develop strong conceptual foundations for understanding fractions.

During this session, 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.
* deepen their understanding of the third grade fractions standards, seeing them as part of a progression starting in first grade and continuing into upper elementary.
* receive ready-to use materials and manipulatives, including fraction squares and Cuisenaire rods.

COST: $100 per participant
DATES: Tuesday, February 6, 2024
TIME: 9 am - 4 pm CENTRAL
LOCATION: Bowling Green, Kentucky (venue name and address will be emailed to all registered participants)

Registration closes on Thursday, January 4, 2024. Participants must register by 11:59 pm on Thursday, January 4, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
February 7, 2024

Add+VantageMR® (AVMR) Course 2 PLUS - VIRTUAL & E-town - Lisa Riggs (2023-24)

8 virtual sessions via ZOOM; 1 in-person day in Elizabethtown, KY
Venue name & address will be given to all registered participants

8 Virtual Sessions: 12-2 pm (E); March 2024 in-person day: 9am-4pm (E)
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Are you ready to grow your knowledge about students’ mathematical development?
Continue your professional journey with AVMR Course 2 PLUS to learn assessments and strategies for advancing students' understanding of place value and multiplicative reasoning. Learn the power of mental math for developing number sense!

*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR®(AVMR) Course 2.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students’ foundational knowledge in place value and multiplication & division.

* Participants will receive an AVMR® Course 2 kit and complete Add+Vantage MR® Course 2 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 2 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 2 - 2023-2024 SCHEDULE:
* This course meets on 4 Wednesdays and 5 Fridays starting in November 2023 and ending in March 2024.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Wednesday, November 1, 2023: 12 - 2 pm Eastern
2. Friday, November 3, 2023: 12 - 2 pm Eastern
3. Wednesday, December 6, 2023: 12 - 2 pm Eastern
4. Friday, December 8, 2023: 12 - 2 pm Eastern
5. Wednesday, January 17, 2024: 12 - 2 pm Eastern
6. Friday, January 19, 2024: 12 - 2 pm Eastern
7. Wednesday, February 7, 2024: 12 - 2 pm Eastern
8. Friday, February 9, 2024: 12 - 2 pm Eastern
9. Friday, March 22, 2024: 9 am - 4 pm Eastern (In-person in Elizabethtown, KY - venue
name & address will be emailed to all registered participants)

Registration closes on Wednesday, September 20, 2023 to allow 6 weeks to order the AVMR 2 kits required. Participants must register by 11:59 pm on Wednesday, September 20, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice to July 3, 2023 if needed. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $600 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place, keeping in mind that the same person must attend all 8 virtual sessions. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

Information regarding Purchase Orders and KCM Invoices:
* You may register for any KCM course without a PO; however, please note that many Kentucky school districts require you obtain a PO before they will pay the invoice. Please obtain a PO if one is required by your school or district.
* Only the registered participant will be emailed a copy of the course invoice. It is the participant's responsibility to forward that invoice on to the appropriate person at their school or district for payment.
* Participants may ask that a copy of their invoice be emailed to another email address; contact the KCM at 859-572-7690 or kcm@nku.edu.
* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
8 virtual sessions via ZOOM; 1 in-person day in Elizabethtown, KY
Venue name & address will be given to all registered participants

8 Virtual Sessions: 12-2 pm (E); March 2024 in-person day: 9am-4pm (E)
Kentucky Center for Mathematics, 859-572-7690
cm@nku.edu

Are you ready to grow your knowledge about students' mathematical development? Continue your professional journey with AVMR Course 2 PLUS to learn assessments and strategies for advancing students' understanding of place value and multiplicative reasoning. Learn the power of mental math for developing number sense!

*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR®(AVMR) Course 2.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students' foundational knowledge in place value and multiplication & division.

* Participants will receive an AVMR® Course 2 kit and complete Add+Vantage MR® Course 2 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
* In addition, participants will receive supplemental materials, an in-person bonus day to extend the learning, and support in using KCM developed resources such as the Kentucky Numeracy Project Intervention (KNPI) Guide.
* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 2 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 2 - 2023-2024 SCHEDULE:
* This course meets on 4 Wednesdays and 5 Fridays starting in November 2023 and ending in March 2024.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
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5. Wednesday, January 17, 2024:12 - 2 pm Eastern
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7. Wednesday, February 7, 2024: 12 - 2 pm Eastern
8. Friday, February 9, 2024: 12 - 2 pm Eastern
9. Friday, March 22, 2024: 9 am - 4 pm Eastern (In-person in Elizabethtown, KY - venue
name & address will be emailed to all registered participants)

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Kentucky Math Interventionist Collegial Support- VIRTUAL - Lisa Riggs (2023-24)

Virtual ZOOM meetings
11:30 AM - 12:30 PM EST
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

The KCM is proud to support Kentucky Math Interventionists! This collegial learning and support opportunity is open to all Kentucky K-8 math intervention teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers.

COURSE TITLE: Kentucky Math Interventionist Collegial Support

COURSE DESCRIPTION:

This Collegial Support Group for Kentucky Math Interventionists includes the following:

* 7 one-hour monthly ZOOM meetings where participants can interact with fellow math interventionists and learn from KCM Regional Consultant Lisa Riggs and other special guest speakers.
* A monthly newsletter filled with teacher tips and intervention resources will be emailed to all registered Kentucky math interventionists.
* Active participants will receive KCM Math Teacher Support Kits filled with books and manipulatives to support their intervention work.
* Because virtual is great but in-person is better, the KCM will hold a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2024 (date and time TBD).

COST: FREE for Kentucky math interventionists
LOCATION: Virtual ZOOM meetings
TIME: 11:30 am - 12:30 pm Eastern
DATES: 7 Select WEDNESDAYS September 2023 through April 2024
1. September 13, 2023
2. October 18, 2023
3. November 29, 2023
4. January 17, 2024
5. February 21, 2024
6. March 20, 2024
7. April 17, 2024

Kentucky math interventionists may register at any time. You do not need to be able to attend every virtual ZOOM meeting to register and participate. However, Math Teacher Support Kits will only be mailed to active participants.

There is no registration limit for this collegial support group. Please share this professional learning event with any Kentucky math interventionists you know.

All registered participants will receive the monthly newsletter and the ZOOM meeting link via an email from KCM Regional Consultant Lisa Riggs. Those emails may go to your junk or spam folder so check there regularly after registering for this event.

The KCM asks that participants in the monthly ZOOM meetings list their full name in the ZOOM meeting - or their first initial and last name - so the KCM can record attendance. Participants in the monthly ZOOM meetings will be emailed a KCM Attendance Certificate for each session they attend,
We hope you will take advantage of this wonderful professional learning opportunity designed specifically for Kentucky math intervention teachers and add those Wednesday dates to your work calendar!
Geometry is a part of every student's curriculum from Kindergarten through 12th Grade and beyond. This 1-day course is for 3rd, 4th and 5th grade teachers and the instructional leaders who support them. Participants will receive ready-to-use manipulatives, tools, and resources to help their students develop the geometric reasoning and problem-solving skills important in the classroom and everyday life!

COURSE TITLE: Math Explorations in Intermediate Geometry 3-5

COURSE DESCRIPTION:
Geometry is a critical area spanning all elementary grade levels with connections to measurement, operations and algebraic thinking, and fractions.

In this course, participants will:
* receive the book Teaching Student-Centered Mathematics for grades 3-5 and hands-on materials such as tangrams, 2D and 3D shapes.
* deepen their understanding of the Van Hiele Model of geometric reasoning and the Geometry Standards in the Kentucky Academic Standards for Mathematics.

COST: $100 per participant
DATES: Tuesday, February 27, 2024
TIME: 8:30 am - 3:30 pm EASTERN
LOCATION: Lexington, Kentucky (venue name and address will be emailed to all registered participants)

Registration closes on Tuesday, January 16, 2024. Participants must register by 11:59 pm on Tuesday, January 16, in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants may register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

The $100 registration fee is non-refundable once materials are ordered. If you register and then become unable to attend for any reason, your school or district may send someone else to attend in your place. Regardless of whether or not a replacement is sent, the course invoice will still need to be paid.

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The KCM is proud to support Kentucky Math Interventionists! This collegial learning and support opportunity is open to all Kentucky K-8 math intervention teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers.

COURSE TITLE: Kentucky Math Interventionist Collegial Support

COURSE DESCRIPTION:

This Collegial Support Group for Kentucky Math Interventionists includes the following:

* 7 one-hour monthly ZOOM meetings where participants can interact with fellow math interventionists and learn from KCM Regional Consultant Lisa Riggs and other special guest speakers.
* A monthly newsletter filled with teacher tips and intervention resources will be emailed to all registered Kentucky math interventionists.
* Active participants will receive KCM Math Teacher Support Kits filled with books and manipulatives to support their intervention work.
* Because virtual is great but in-person is better, the KCM will hold a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2024 (date and time TBD).

COST: FREE for Kentucky math interventionists

LOCATION: Virtual ZOOM meetings

TIME: 11:30 am - 12:30 pm Eastern

DATES: 7 Select WEDNESDAYS September 2023 through April 2024

1. September 13, 2023
2. October 18, 2023
3. November 29, 2023
4. January 17, 2024
5. February 21, 2024
6. March 20, 2024
7. April 17, 2024

Kentucky math interventionists may register at any time. You do not need to be able to attend every virtual ZOOM meeting to register and participate. However, Math Teacher Support Kits will only be mailed to active participants.

There is no registration limit for this collegial support group. Please share this professional learning event with any Kentucky math interventionists you know.

All registered participants will receive the monthly newsletter and the ZOOM meeting link via an email from KCM Regional Consultant Lisa Riggs. Those emails may go to your junk or spam folder so check there regularly after registering for this event.

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We hope you will take advantage of this wonderful professional learning opportunity designed specifically for Kentucky math intervention teachers and add those Wednesday dates to your work calendar!
Add+VantageMR® (AVMR) Course 2 PLUS - VIRTUAL & ETOWN - Lisa Riggs (2023-24)

8 virtual sessions via ZOOM; 1 in-person day in Elizabethtown, KY
Venue name & address will be given to all registered participants

8 Virtual Sessions: 12-2 pm (E); March 2024 in-person day: 9am-4pm (E)
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

Are you ready to grow your knowledge about students' mathematical development? Continue your professional journey with AVMR Course 2 PLUS to learn assessments and strategies for advancing students' understanding of place value and multiplicative reasoning. Learn the power of mental math for developing number sense!

*This course has a prerequisite: Participants must complete Add+VantageMR® (AVMR) Course 1 before taking Add+VantageMR®(AVMR) Course 2.

COURSE TITLE: Add+VantageMR® (AVMR) Course 2 PLUS

COURSE DESCRIPTION:

Learn assessments and teaching strategies for advancing students' foundational knowledge in place value and multiplication & division.

* Participants will receive an AVMR® Course 2 kit and complete Add+Vantage MR® Course 2 developed by the US Math Recovery Council (link: https://www.mathrecovery.org/professional-development/addvantage-mr ) through 8 virtual sessions with a KCM Regional Consultant.
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* Participants MUST attend all 8 virtual sessions and complete all assigned course work in order to earn AVMR 2 certification. Sessions are live and interactive ZOOM meetings. They are not recorded to be watched at any other time. Please review course schedule carefully to ensure you can attend all sessions as scheduled.

COST: $600 per participant

AVMR COURSE 2 - 2023-2024 SCHEDULE:
* This course meets on 4 Wednesdays and 5 Fridays starting in November 2023 and ending in March 2024.
* 8 VIRTUAL 2-hour sessions will meet via ZOOM. Please note: Each 2-hour session includes 1-hour of required asynchronous work.
* 1 IN-PERSON day at the end of the course will meet in Elizabethtown, Kentucky.

SESSION DATES AND TIMES:
1. Wednesday, November 1, 2023: 12 - 2 pm Eastern
2. Friday, November 3, 2023: 12 - 2 pm Eastern
3. Wednesday, December 6, 2023: 12 - 2 pm Eastern
4. Friday, December 8, 2023: 12 - 2 pm Eastern
5. Wednesday, January 17, 2024:12 - 2 pm Eastern
6. Friday, January 19, 2024: 12 - 2 pm Eastern
7. Wednesday, February 7, 2024: 12 - 2 pm Eastern
8. Friday, February 9, 2024: 12 - 2 pm Eastern
9. Friday, March 22, 2024: 9 am - 4 pm Eastern (In-person in Elizabethtown, KY - venue
name & address will be emailed to all registered participants)

Registration closes on Wednesday, September 20, 2023 to allow 6 weeks to order the AVMR 2 kits required. Participants must register by 11:59 pm on Wednesday, September 20, in order to attend.

Registration limit for this course is 20 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice to July 3, 2023 if needed. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.

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* KCM Invoices are not mailed.
* Payment is greatly appreciated prior to the course start date, and must be paid as soon as the course is finished.
Kentucky Math Interventionist Collegial Support- VIRTUAL - Lisa Riggs (2023-24)

Virtual ZOOM meetings
11:30 AM - 12:30 PM EST
Kentucky Center for Mathematics, 859-572-7690
kcm@nku.edu

The KCM is proud to support Kentucky Math Interventionists! This collegial learning and support opportunity is open to all Kentucky K-8 math intervention teachers who want to grow as professionals and share their knowledge, successes and struggles with fellow math intervention teachers.

COURSE TITLE: Kentucky Math Interventionist Collegial Support

COURSE DESCRIPTION:

This Collegial Support Group for Kentucky Math Interventionists includes the following:

* 7 one-hour monthly ZOOM meetings where participants can interact with fellow math interventionists and learn from KCM Regional Consultant Lisa Riggs and other special guest speakers.
* A monthly newsletter filled with teacher tips and intervention resources will be emailed to all registered Kentucky math interventionists.
* Active participants will receive KCM Math Teacher Support Kits filled with books and manipulatives to support their intervention work.
* Because virtual is great but in-person is better, the KCM will hold a special, invitation-only meet and greet session for this group at the KCM Annual Math Conference in March 2024 (date and time TBD).

COST: FREE for Kentucky math interventionists
LOCATION: Virtual ZOOM meetings
TIME: 11:30 am - 12:30 pm Eastern
DATES: 7 Select WEDNESDAYS September 2023 through April 2024
1. September 13, 2023
2. October 18, 2023
3. November 29, 2023
4. January 17, 2024
5. February 21, 2024
6. March 20, 2024
7. April 17, 2024

Kentucky math interventionists may register at any time. You do not need to be able to attend every virtual ZOOM meeting to register and participate. However, Math Teacher Support Kits will only be mailed to active participants.

There is no registration limit for this collegial support group. Please share this professional learning event with any Kentucky math interventionists you know.

All registered participants will receive the monthly newsletter and the ZOOM meeting link via an email from KCM Regional Consultant Lisa Riggs. Those emails may go to your junk or spam folder so check there regularly after registering for this event.

The KCM asks that participants in the monthly ZOOM meetings list their full name in the ZOOM meeting - or their first initial and last name - so the KCM can record attendance. Participants in the monthly ZOOM meetings will be emailed a KCM Attendance Certificate for each session they attend,
We hope you will take advantage of this wonderful professional learning opportunity designed specifically for Kentucky math intervention teachers and add those Wednesday dates to your work calendar!
Imagine a school where parents are true partners in mathematical learning. Now learn how to make that vision a reality. This course will empower you to host an AMAZING Family Math Night at your school. Course participants even get to choose from a KCM approved list of math manipulatives and order up to $250 in materials to use at their Family Math Night.

COURSE TITLE: Family Math K-6: Empowering Parents as Partners

COURSE DESCRIPTION:
Families are critical partners in students' developing mathematical knowledge. Yet, so many parents, grandparents and guardians feel frustrated and overwhelmed when trying to help their child with math. For this course, the KCM utilizes the book Partnering With Parents in Elementary School Math: A Guide for Teachers and Leaders; this wonderful resource provides educators with guidance on how to communicate with families about their child’s math learning. Each participant receives a copy of this book.

During this course, participants will:
* explore research on family engagement and how to educate parents concerning math fluency and the Kentucky Academic Standards.
* discuss family math resources and how to conduct a family math night event.
* host one Family Math Night at their own school.
* receive up to $250 of manipulatives and activity resources for their family math night. Participants will choose the materials and resources they need from a list of approved options provided by the KCM.

COST: $50 (This course is available for KENTUCKY K-6 educators only)
LOCATION: Virtual ZOOM meetings
TIME: 9:30 - 11:00 am Eastern (8:30 am - 10:00 am Central)
DATES: 5 virtual 90-minute sessions on select FRIDAYS, plus 1 Family Math Night implementation
  1. September 8, 2023
  2. September 22, 2023
  3. January 5, 2024
  4. January 26, 2024
  5. April 26, 2024

Participants must be able to attend all 5 virtual ZOOM meetings as scheduled above. These virtual sessions are live and interactive meetings; they are not recorded to be watched at any other time.

Registration closes on Thursday, August 17, 2023. Participants must register by 11:59 pm on Thursday, August 17 in order to attend.

Registration limit for this course is 25 participants. Once that limit is reached, the KCM will be unable to accept any additional participants.

Because participants might register during the 2022-23 fiscal school year, but this course meets during the 2023-24 fiscal school year, the KCM can change the date on any invoice if needed to be July 3, 2023. Please email the KCM at kcm@nku.edu or call us at 859-572-7690 if you need that change made.
Please note:
This KCM professional learning event is for KENTUCKY K-6 educators only.
Participants commit to implementing one Family Math Night event at their school during
the 2023-24 school year. Each school will receive up to $250 of materials to use at their
Family Math Night event.

Since spots in this course are limited, we ask that each school register just one
participant - which should be the person who will be leading the planning and
implementation of the Family Math Night event at their school. Should a school want to
have more than one person attend this course, they should contact the KCM at
859-572-7690 or kcm@nku.edu to discuss their situation. The KCM will determine the
best way to handle any additional registrations needed for that school.

The $50 registration fee is non-refundable once the book is ordered. If you register and
then become unable to attend for any reason, your school or district may send someone
else to attend in your place. Regardless of whether or not a replacement is sent, the
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soon as the course is finished.

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