

2016-17 PROFESSIONAL LEARNING

MATH

Using Mathematical Mindset to Build an Effective Classroom Culture *Grades K-8* **September 13 & October 25** **\$275**

Want to know what the "Growth Mindset" culture looks like in K-8 mathematics education? Wondering how you can establish it at the classroom level? This 2-day training series uses research-based strategies from Jo Boaler, Carol Dweck, Mary Cay Ricci and Shirley Clarke to demonstrate what a positive learning culture looks like in a math classroom, how to foster a positive math culture that is based on a growth mindset, and tasks that elicit higher order thinking and meaningful mathematical discourse.

Math Games for Student Engagement *Grades K-8*

Number Sense: September 20 Algebraic Reasoning: October 21 Geometry: November 18 **\$150 each**

Would you like to increase student engagement? Close the achievement gap? Foster positive social interactions in your classroom? Enhance student motivation and increase student attendance? Learn how to incorporate games into your classroom to build skills and fluency while supporting the KAS and Standards for Mathematical Practice. Receive all the game templates used in the training for immediate implementation in your classroom!

Family Math Night *Grades K-8* **September 14** **\$125**

Get everything you need to plan an engaging and successful Family Math Night at your school! Math Nights are an effective way to engage stakeholders in supporting the school math program and their child's learning. Topics include problem solving skills, questioning to promote reasoning, structuring a home learning environment, and the effects of mindset and praise in support of math learning.

Operation: Math Basics *Grades K-5* **\$325-450 various dates**

Are your students frustrated with math? All students can and should learn math, but for students to like math, it must be fun! This game-based program starts students with concepts they can quickly master, showing them that they can be successful at math. Participate in hands-on learning for developing number sense and expanding reasoning in the mathematics classroom. Receive almost \$200 worth of resources to immediately use with your students!

Understanding Fraction Concepts **K-2: October 17** **\$275** **3-5: November 11 & December 2** **\$250**

Help your students understand foundational fraction concepts and their connections to algebra and beyond! Establish a foundational understanding of the idea of a unit and focus on multiplicative thinking for students in grades K-2, while also learning to use various representations they can build on in grades 3-5. K-2 registration includes a classroom set of custom manipulatives.

ACADEMIES

Academy for Effective Science Teaching and Learning

Phenomenon-driven Instruction and Assessment

Grades K-12 **\$850**

Join a true educator community of practice where each day builds upon the last, and subsequent sessions are designed from teacher feedback. Get time and support to create phenomena-based lesson sequences patterned after the KDE science assessment model. Leave with a process and a deeper understanding of how to design phenomena-based, three-dimensional instruction and assessments, a bank of aligned lessons and assessments, and a range of tools and strategies to engage learners with the intent of NGSS.

Lexington: Sept. 23, Nov. 4, Dec. 14, Jan. 24, Feb. 21

Western Kentucky: Sept. 21, Oct. 27, Dec. 9, Jan. 26, Feb. 15

Academy for Effective Math Teaching and Learning

How to change your classroom culture so that students are more actively engaged in their learning

Grades K-12 **\$850**

This participant-driven network of support is designed to give math teachers time to work on designing high-quality, effective math instruction. Participants will get a chance to share challenges and new ideas with colleagues and form a learning community that supports the Teacher Effectiveness Framework, addressing Tier I intervention, PGES, and implementation of KAS. Educators will leave the academies with research-based instructional strategies and the means to orchestrate effective mathematical conversations in their classroom so that mathematics will be engaging for all learners. Each day will consist of joint training for K-12 teachers, with grade-level breakouts in the afternoon to focus on specific content and tasks to meet the needs of teachers of every grade level.

Lexington: Sept. 30, Oct. 18, Nov. 15, Dec. 9, Jan. 13

SPECIAL EVENT

Exceeding Expectations through Formative Assessment -

The Key to Student Progress

November 1, 2016 **\$150**

Shirley Clarke is the foremost expert in the practical application of the principles of formative assessment.



This day will include:

- ◆ Effective strategies and useful frameworks for developing a learning culture, involving students in planning, targets and co-constructed success criteria, questioning, talk and all aspects of feedback.
- ◆ Links with TPGES for every aspect of formative assessment – how to do it!
- ◆ Successful tried and tested action plans.
- ◆ Research-based supporting the use of the practical strategies, including John Hattie's *Visible Learning*.
- ◆ Video clips of teachers implementing the strategies with their students.

For classroom teachers, coaches, administrators and education faculty of any content K-12!

For more information on any of these opportunities including registration, visit education.uky.edu/pimser