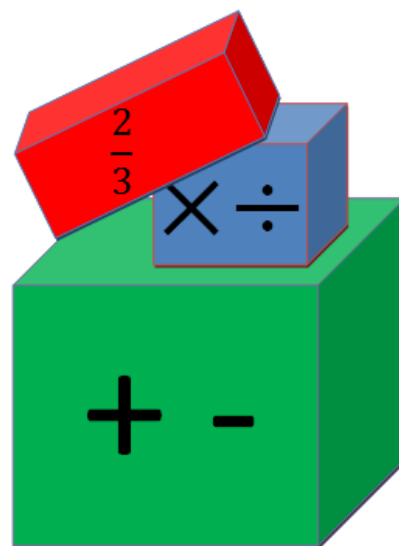


**Kentucky Valley  
Education Cooperative  
Presents:  
2015**

**Conceptual  
Building  
Blocks**



**Objectives**

1. To build teacher knowledge base around the building blocks of numeracy.
2. To provide strategies for teaching content and differentiating instruction.
3. To develop a deep conceptual understanding of the core components of number and operations.
4. To catalyze change within the school through coaching sessions.

We will be using modules that have been developed by the Special Education Math Consultants from around the state in cooperation with KDE. They are intense and cover addition/subtraction, multiplication/division, and fractions.

**Who should attend?**

The participants should be teachers who work with students across grade levels K-5 or as interventionists. KDE would like us to target **Focus and Priority Schools** or feeder schools of Focus and Priority Schools. **Please select teachers who will attend all three modules and who are willing to share with other teachers in the school.**

If you don't have any of these schools, then consider sending someone from a lower performing school in the district or someone who needs to build their own conceptual knowledge of mathematics in order to be a better teacher.

***\*Note: If your building has a math coach assigned to it, think about sending a teacher and the math coach and then your math coach could be the one doing the coaching sessions and catalyzing change within the building.***

**Requirements**

- Attend ALL 3 sessions (A school may send a different teacher to modules according to grade level.)
- Participate in at least 3 coaching sessions (one may be online) with the KVEC Math Consultant. The coaching sessions will occur following the module trainings.
- Commit to implementing the elements of the modules and sharing strategies with other teachers in your school and/or district.

**To Register**

- Go to [www.kentuckyvalley.org](http://www.kentuckyvalley.org)
- Click on "register for an event"
- Find CBB Modules and register

<b>Date</b>	<b>Module</b>	<b>Location</b>
February 16-17, 2015 9:00 – 4:00	Addition/Subtraction	TBA when registration is closed.
March 4-5, 2015 9:00 – 4:00	Multiplication/Division	TBA when registration is closed.
April 8-9, 2015 9:00 – 4:00	Fractions	TBA when registration is closed.

Please register through Kentucky Valley Education Cooperative at [www.kentuckyvalley.org](http://www.kentuckyvalley.org)

**Cost:** Substitution teacher while you attend the training.

Teachers will receive:

- Six days of quality PD.
- Three coaching sessions (could be in-person, online, e-mail, other)
- Resources and classroom materials for each session.
- The following books:
  - Wright, Robert, et. al. (2012) *Developing Number Knowledge*.
  - McNamara, J. & Shaughnessy, M. (2010). *Beyond Pizzas & Pies: 10 Essential Strategies for Supporting Fraction Sense*. Sausalito, CA: Math Solutions. (Approximately \$29)
  - Van de Walle, J. & Lovin, L. (2006). *Teaching Student-Centered Mathematics Grades 3-5*. Boston, MA: Pearson. (Approximately \$35)
  - It Makes Sense! Using Ten-Frames to Build Number Sense. Melissa Conklin. Sausalito, CA: Math Solutions. (Approximately \$30)

### **Modules Overview**

***Addition/Subtraction:*** Focuses on the foundational skills and concepts necessary for the success of counting and cardinality, compositions and decompositions of number, and strategies based on place value.

***Multiplication/Division:*** Explores the concepts of multiplication and division by examining alternate strategies and student misconceptions.

***Fractions:*** Day One focuses on strategies for developing fraction sense, while Day Two develops a conceptual base for operations with fractions (equivalency, addition, subtraction, multiplication, and division).