

***Extension Activity:***  
**Creating Problems to Meet the Focus, Coherence, and Rigor required  
by the Common Core State Standards for Mathematics**

**Materials:**

- Common Core State Standards for Mathematics
- Problem Template (part of this document)
- Progression Documents (found at <http://ime.math.arizona.edu/progressions/>)
- (Optional) Sample (Grade Band 3-5 Domain NF)

**Directions:**

- With a partner, create a problem set that shows the progression of a domain of the CCSSM over one grade band (K-2, 3-5, or 6-8), preferably a domain that contains major work of those grades.

For example, one option would be to create problems for grade band K-2 in the domain of Operations and Algebraic Thinking. Another would be to create problems for grade band 6-8 in the domain of Expressions and Equations, and so on.

- Include 2-3 problems for each grade for a total of 6-9 problems. Use the progression documents for the domain you've chosen as a guide.
- Note the standard code that each problem aligns to, realizing that a problem can be aligned at the individual standard level, the cluster level, or the domain level.
- Determine the aspect of rigor (conceptual understanding, procedural skill and fluency, or application) being addressed with each problem. Remember that the standard will give clues as to what aspect of rigor is expected.
- When finished, reflect on the activity with other groups.

# ACHIEVE THE CORE

Domain \_\_\_\_\_

Grade Band \_\_\_\_\_

Standard Code	Problem	Fluency, Conceptual Understanding, or Application

# ACHIEVE THE CORE

Standard Code	Problem	Fluency, Conceptual Understanding, or Application