

Planning for the Literacy Shifts

Name: A. Mastroleo
Grade Level(s): 10th grade

Content Area: Geometry
Unit/lesson: Ratio and Proportion

- ❖ Please consider an upcoming unit or lesson that you might apply one or more of the ELA/Content Literacy Shifts.
- ❖ Identify how the unit or lesson might look pre- Common Core and post- Common Core.
- ❖ A column for questions and further support has been provided, as well.

Literacy Shifts	Pre-Common Core	Post-Common Core	I'm still wondering...
Balancing Informational and Literary Texts (PreK-5) Building Knowledge in the Disciplines (Grades 6-12)	<i>Geometry textbook or multiple textbooks</i>	<i>Textbook, supplemental texts where appropriate (focus areas). For example, when we study ratios we can use <i>The Golden Ratio</i>.</i>	
Staircase of Complexity	<i>Math texts can be tough to read already, but the textbook does a good job of bringing it to the students' grade level.</i>	<i>Supplement the textbook's limited text with additional reading that exposes students to rich language about math, for example, <i>The Golden Ratio</i>.</i>	
Text-based Answers	<i>The ratio of the side lengths of a quadrilateral is 2:3:5:7, and its perimeter is 85ft. What is the length of the longest side?</i>	<i>Describe how the idea of proportion can be applied to mathematical concepts as well as life and culture. Use specific examples from the text to support your answer.</i>	
Writing from Sources	<ol style="list-style-type: none"> 1. Is the ratio 6:7 the same as 7:6? Why or why not? 2. Susan wants to know if the fractions $\frac{3}{7}$ and $\frac{12}{18}$ are equivalent. Explain how she can use the properties of proportions to find out. 3. Copy and complete the graphic organizer. In the boxes, write the definition of a proportion, the properties of proportions, and examples and non-examples of a proportion. 	<i>Architect, mathematician, and engineer, Richard Buckminster Fuller once said, "When I am working on a problem, I never think about beauty. I think only of how to solve the problem. But when I have finished, if the solution is not beautiful, I know it is wrong." Use your knowledge of proportions and the text, <i>The Golden Ratio</i> to agree or disagree with this quote.</i>	
Academic Vocabulary	<i>Ratio, proportion, extreme, means</i>	<i>Harmonious, intriguing, elusive, aesthetic</i>	