


6th Grade Math Curriculum Bundle # 3

Title		Suggested Dates
Prime Numbers, Order of Ops, GCF, LCM		October 5 – October 23 (14 days)

Big Idea/Enduring Understanding	Guiding Questions
Number sense can be strengthened through the study of properties of whole numbers such as prime factorizations and factors and multiples.	<ol style="list-style-type: none"> 1. How can any whole number be expressed as the product of prime numbers? 2. How can factors and multiples be used to solve problems in everyday life? 3. How can a conjecture strengthen conversation and understanding about mathematical ideas?
The result of a series of operations is impacted by the order in which the operations are performed. There is a conventional order of operations that produces a standard outcome for a given expression.	<ol style="list-style-type: none"> 1. Why do we need a conventional order of operations? 2. What is a good way to remember our convention for order of operations?

The resources included here provide teaching examples and/or meaningful learning experiences to address the District Curriculum. In order to address the TEKS to the proper depth and complexity, teachers are encouraged to use resources to the degree that they are congruent with the TEKS and research-based best practices. Teaching using only the suggested resources does not guarantee student mastery of all standards. Teachers must use professional judgment to select among these and/or other resources to teach the district curriculum.

Knowledge & Skills with Student Expectations	District Specificity/Examples	Suggested Resources (See note above)	
<p>6.1 Number, operation, and quantitative reasoning. The student represents and uses rational numbers in a variety of equivalent forms.</p> <p>6.1D write prime factorizations using exponents</p> <p><i>Note: May want to teach divisibility rules (2,3,4,5,6,9,10, 25, 100)</i></p>	<ul style="list-style-type: none"> • factor trees to show prime factorization • standard form notation • exponent form notation • listing factors • use divisibility rules 	<p>CMP2 Prime Time Pearson Investigations 2, 3, 4, 5 (5 for homework?)</p>	<p>PH: Lessons 4-3</p> <p>KAMICO: “Prime Dominos”</p> <p>AIRR: Activity 43-45</p>
<p>6.1 Number, operation, and quantitative reasoning. The student represents and uses rational numbers in a variety of equivalent forms.</p> <p>6.1E identify factors of a positive integer, common factors, and the greatest common factor of a set of positive integers</p> <p><i>Note: common factors, GCF</i></p>	<ul style="list-style-type: none"> • use a set of at least 3 integers (continued) • use numbers greater than 10 (continued) • simplify fractions using GCF or prime factorization • include real world applications 		<p>PH: Lessons 4-3, 4-4, 7-1</p>

6th Grade Math Curriculum Bundle # 3

<p>6.1 Number, operation, and quantitative reasoning. The student represents and uses rational numbers in a variety of equivalent forms.</p> <p>6.1F identify multiples of a positive integer and common multiples and the least common multiple of a set of positive integers</p> <p>Note: This SE will be mentioned again in Bundle 7 to connect with Least Common Denominator.</p>	<ul style="list-style-type: none"> • use at least 3 integers in the set 		<p>PH: Lessons 4-7, 4-8</p>
<p>6.2 Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve problems and justify solutions.</p> <p>6.2E use order of operations to simplify whole number expressions (without exponents) in problem solving situations</p>	<ul style="list-style-type: none"> • solve problems with both addition or subtraction and multiplication or division with and without parentheses • use whole numbers only • identify the specific step when evaluating a given expression • express the operation of multiplication in various forms 		<p>PH: Lessons 1-4, 3-2</p> <p>AIRR 6: Activity 95-97</p> <p>Region 4 Accelerated Curriculum 6: pgs 3-11</p> <p>Region 4 Closing the Distance: Lesson 3 pgs 39-54</p>