

DIETRICH SCHOOLS 6th Grade Math PACING GUIDE

Grade 6	First Quarter	2015-2016		
<p>Grade Level Mathematics Focus: In Grade 6, instructional time should focus on four critical areas:</p> <p>(1) connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems</p> <p>(2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers</p> <p>(3) writing, interpreting, and using expressions and equations</p> <p>(4) developing understanding of statistical thinking</p>				
<p>Essential Questions for this Unit:</p> <p>1. How can students use the meaning of fractions, the meanings of multiplication and division, and the relationship between multiplication and division to understand and explain why the procedures for dividing fractions make sense, and use these operations to solve problems?</p> <p>2. How can students extend their previous understandings of number and the ordering of numbers to the full system of rational numbers, which includes negative rational numbers, and in particular negative integers, and reason about the order and absolute value of rational numbers and about the location of points in all four quadrants of the coordinate plane?</p>				
Unit	CCSS <u>ENY</u> <u>Mr. F</u>	Standard Description	Content	Resources <u>Module 2</u> <u>NS 4 Online</u> <u>NS 1-8 Online</u>
Unit 1 The Number System	6.NS.2 <u>Lesson</u> Mod 2 L 12-15	Fluently divide multi-digit numbers using the standard algorithm.	Partial Quotients Guess & Check Decomposition to Fractions Traditional Bubble Method List Multiples Venn Diagram List Factors Decompose to Place Value Partial Sums Compensation Area Model Generic Rectangle Partial Products	<p style="text-align: center;"><u>CCSS-Links to Lessons-Activities</u></p> <p style="text-align: center;"><u>Learn Zillion PPT</u></p> <ul style="list-style-type: none"> • <u>6.NS.2 Assessing 6.NS.2</u> • <u>Divide multi-digit integers</u> • <u>6.NS Interpreting a Division Computation</u> • <u>Divide Multi-digit Numbers</u> • <u>6.NS.3 Assessing 6.NS.3</u> • <u>Four operations with decimals</u> • <u>Decimals</u> • <u>Multiply Decimals</u> • <u>Divide Decimals</u> • <u>6.NS Jayden’s Snacks</u> • <u>6.NS Reasoning about Multiplication and Division and Place Value, Part 1</u> • <u>6.NS Reasoning about Multiplication and</u>
	6.NS.4 <u>Lesson</u> Mod 2 L 16-19	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.		
	6.NS.3 <u>Lesson</u> Mod 2 L 9-11	3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.		

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<p>6.NS.2 Lesson Mod 2 L 13</p>	<p>Fluently divide multi-digit numbers using the standard algorithm.</p>	<p>Fractions Clear Decimals Write as Fractions</p>	<p><u>Division and Place Value, Part 2</u></p> <ul style="list-style-type: none"> • <u>6.NS Gifts from Grandma, Variation 3</u> • <u>6.NS Buying Gas</u> • <u>6.NS Movie tickets</u> • <u>6.EE,NS,RP; 8.EE,F Pennies to heaven</u> • <u>6.NS Setting Goals</u> • <u>Solve problems involving the four operations and rational numbers</u> <ul style="list-style-type: none"> • <u>Common factors and multiples</u> • <u>6.NS.4 Assessing 6.NS.4</u> • <u>GCF and LCM</u> • <u>GCF & Distributive Property</u> • <u>6.NS Factors and Common Factors</u> • <u>6.NS Multiples and Common Multiples</u> • <u>6.NS Adding Multiples</u> • <u>6.NS The Florist Shop</u> • <u>6.NS Bake Sale</u> <ul style="list-style-type: none"> • 6.NS.2 resources site: http://ccssmath.org/?page_id=518 • 6.NS.4 resources site: http://ccssmath.org/?page_id=522 • Conceptual pictures and fractions: • http://www.commoncoresheets.com/Fractions.php • http://learnzillion.com/lessons/3593-compute-quotients-of-fractions-in-realworld-problems • http://learnzillion.com/lessons/3594-computing-quotients-using-the-fractions-division-rule • 6.NS.1 Resource site: http://ccssmath.org/?page_id=516 • 6.NS.3: http://ccssmath.org/?page_id=520
<p>6.NS.4 Lesson Mod 2 L 18</p>	<p>Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.</p>		