DITRICH SCHOOLS PACING GUIDE

Grade 6	First Quarter	2015-2016

Grade Level Mathematics Focus:

In Grade 6, instructional time should focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking.

Essential Questions for this Unit:

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?

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?

Unit	CCSS ENY Mr. F	Standard Description	Content	Resources ENY Video Lessons Online Lessons NS 1-4 Online
Unit 1 The Number System	**6.NS.1** Lesson	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.	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	CCSS-Links to Lessons-Activities Learn Zillion PPT **6.NS.1 | Assessing 6.NS.1 Dividing fractions Dividing fractions 6.NS Dan's Division Strategy 6.NS Cup of Rice 6.NS Running to School, Variation 3 Divide Fractions Relationship between Multiplication and Division Fraction Word Problems Divide Fractions by Fractions Divide Fractions and Mixed Numbers** CCSS 6.NS.1 Resource site: http://ccssmath.org/?page_id=516
	6.NS.5 Lesson	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperatures above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.		

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			Clear Decimals Write as Fractions	6.NS.5: http://ccssmath.org/?page_id=524