

Unit Title:	Solve problems involving operations with integers and rational numbers unit 5		
Unit Vocabulary:	Opposite Analyze Explore Compute Interpret Compare Order Represent Understand Algorithm Exhibit Identical Compare	Zero Multi-step problems Numerator Denominator Absolute Value Coordinate Plane Quadrant Perimeter Area Apply Differentiate Maximum Estimate Evaluate	Additive Inverse Additive Inverse Property Integer Rational Number System Number line Adding, Subtracting, Multiplying & Dividing Sum, Difference, Product & Quotient Order of Operations Expressions Standard algorithm Absolute Value Properties of Operations

	Learning Target <i>(All Teachers)</i>	Instructional Plan <i>(Core Teacher)</i>	Differentiation <i>(ELA/Math Inclusion Teacher)</i>	Level UP/Advisory Plans (Core Content Teachers) (Not NHI time)	Teacher Tips & Notes <i>(All Teachers)</i>
M O N	I can apply all operations with positive and negative fractions to solve mathematical problems. 7.PAFR.3.5 Apply all operations with rational numbers to solve problems in mathematical and real-world situations.	<u>Opening Strategy:</u> Motivational Video - math debunked Warm up day 1 District bellringers (print slides 2-8 four to a page) <u>Core Lesson Activities:</u> Slideshow - Multiply and Divide Integers - CFA Q1 #1 <u>Summarizing Activity:</u> aleks	<u>SWD Differentiation Strategy:</u>	Number sense #1 This unit is no calculator	

T U E	I can use the Order of Operations to solve multi-step problems with positive and negative rational numbers in any form. 7.PAFR.3.5 Apply all operations with rational numbers to solve problems in mathematical and real-world situations.	<u>Opening Strategy:</u> - Warm up day 2 <u>Core Lesson Activities:</u> slideshow Unit 5 Lesson 6 - Use Properties of Operations to Add, Subtract, Multiply, and Divide - Add in more long division instead of the end problems with multi numbers if needed These are longer problems, pick and choose as you see fit <u>Summarizing Activity:</u> Pg 234 with partner	<u>SWD Differentiation Strategy:</u> ● Group discussion, Technology, turn and talk, escape room <u>Inclusion Teacher Role:</u> ● n/a	Minor grade-wed 8/19 Test Tuesday 8/25
W E D	I can use the Order of Operations to solve multi-step problems with positive and negative rational numbers in any form. 7.PAFR.3.5 Apply all operations with rational numbers to solve problems in mathematical and real-world situations.	<u>Opening Strategy:</u> Warm up day 3 <u>Core Lesson Activities:</u> Slideshow - Quiz today on all operations Enrichment for early finishers - Ind ws: use as group work game <u>Summarizing Activity:</u> ALEKS	<u>SWD Differentiation Strategy:</u> ● Quiz today, review before hand- maybe use notes <u>Inclusion Teacher Role:</u> ● n/a Extra Practice: - Lesson idea	
T H U	I can use the coordinate plane strategically to find the horizontal and vertical distances between ordered pairs 7.MSGR.3.1 Find distances between ordered pairs on the coordinate plane, limited to the same x-coordinate or the same y-coordinate. 7.PAFR.3.5	<u>Opening Strategy:</u> Warm up day 4 <u>Core Lesson Activities:</u> Panther Paws Reward Day <u>Summarizing Activity:</u> aleks	<u>SWD Differentiation Strategy:</u> ● <u>Inclusion Teacher Role:</u> ● n/a	

	Apply all operations with rational numbers to solve problems in mathematical and real-world situations				
F R I	I can use ratio reasoning to convert units of metric and customary systems involving complex fractions. 7.PAFR.2.3 Compute unit rates, including those involving complex fractions with like or different units. 7.PAFR.2.4 Use dimensional analysis to convert units between metric and customary systems.	<u>Opening Strategy:</u> Warm up day 4 <u>Core Lesson Activities:</u> Slideshow finish:Unit 5 Lesson 7 - Integers, Rational Numbers, and the Coordinate Plane slideshow Unit 5 lesson 8 Ratio Reasoning: Convert Measurements Between Systems (1 Day) <u>Summarizing Activity:</u> ALEKS	<u>SWD Differentiation Strategy:</u> *** DO BOTH LESSONS TODAY-SHORTEN EACH IF NEEDED DUE TO MISSING CLASS ON THURSDAY!	• SEL Mini Lessons • Goal Setting • Reward Time • School Surveys • School To-Do's	*Post study guide in Goblin? No calc.