Whiten/Fahnestock/White / Math 6 / Nov 27-Dec 1 ---- Week 2-7

Standard(s)	**MGSE6.NS.6** Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. **MGSE6.NS.6a** Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g.,–(−3)=3, and that 0 is its own opposite. **MGSE6.NS.6b** Understand signs of number in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes. **MGSE6.NS.6c** Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane. **MGSE6.NS.7** Understand ordering and absolute value of rational numbers. . **MGSE6.NS.7c** Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. **MGSE6.NS.7d** Distinguish comparisons of absolute value from statements about order. **MGSE6.NS.8** Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate. **MGSE6.G.3**. Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply those techniques in the context of solving real-world mathematical problems. **MGSE6NS.7a** Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.				
Essential questions Or "I Can…" statements	**Monday** I can place rational numbers on a number line. I can convert fractions to decimals and vice versa to help order correctly.	**Tuesday** I can place rational numbers on a number line.	**Wednesday** I can place rational numbers on a number line.	**Thursday** I can find the distance between two points on a coordinate grid. I can find perimeter of a figure on the coordinate plane.	**Friday** See unit plan.
Warm-up	#67	#68	#69	#70	#
Opening	Review integers and rational numbers	Review homework		Questions about practice test?	Last minute questions about practice test?
Work Session	-intro to rational numbers -comparing and ordering rational numbers -labeling points on number lines Text p 130 #11-30	-versatile activity -# line task in groups with sentence strips Text p 132 # 16-28	-quiz -Mrs. Snug activity sheet Text 130 # 31-39	-review coordinate plane, reflections, distance -review ordering rational numbers	Unit 7 test If time permits: -text p 133 "ups & downs" task
Homework	Weekly sheet- week 16		Practice test		NONE
Closing	Have students restate the standard NS.6c and 7a Remind students that we have covered all unit 7 now, we will test on Friday.	If time permits, students could hang their number lines up to show others.	Hand out practice test review the concepts/standards that will be covered on Friday.		
Assessment for understanding	Formative-calling on students	Formative-versatile, calling students to board to order rational numbers	Formative-grade quiz for accuracy, Mrs. Snug sheet is self-checking	Formative-looking to see if students can figure out how to find distance between points without having to graph them and count on the grid	Summative-grade unit assessment for accuracy

Unit 7 plan: https://www.georgiastandards.org/Georgia-Standards/Frameworks/6th-Math-Unit-7.pdf