



## Pre-Algebra Survey Pacing Guide 2020-2021

4.0 Target	3.0 Target	2.0 Target	Pacing & Unit Dates
<b>Unit #1: Ratios</b>			
Priority Targets			28 days
Use proportional reasoning to solve multi-step problems. (eg mpg, then finding how much gas used/distance on tank of gas).	<b>7.RP.3 - Use proportional reasoning to solve real-world problems, including those with unit rates.</b>	Use proportional reasoning to solve for a missing value.	Unit Dates: August 15 - September 27
Solve an applied percent problem.	<b>6.RP.3c - Solve real-world problems with percents.</b>	Solve a percent equivalency problem.	Benchmark Dates: September 23-27
			Trimester #1
<b>Non-Priority Targets</b>			
Solve a ratio real-world problem with rational numbers.	<b>6.RP.1 - Use ratios to solve real-world problems.</b>	Write a ratio and determine if two ratios are equivalent.	
<b>Unit 2: Rational Numbers</b>			
<b>Non-Priority Targets</b>			
Find the greatest common factor or least common multiple of three numbers in a real-world context or explain the difference between factors and multiples.	<b>6.NS.4 - Find the greatest common factor (1-100) and least common multiple (1-12) of two whole numbers in a real-world context.</b>	Find the greatest common factor (1-100) and least common multiple (1-12) of two whole numbers.	13 days (No assessment)
Order a list of absolute values and rational numbers. (-3,  -2 , 10, ...)	<b>6.NS.7 - Interpret the absolute value of rational numbers in real-world situations.</b>	Define absolute value and interpret the absolute value of rational numbers on a number line.	
Reflect a shape.	<b>6.NS.8 - Solve mathematical problems by graphing points in all four quadrants of the coordinate plane, including reflecting a point.</b>	Graph an ordered pair on a coordinate plane.	
<b>Priority Targets</b>			
Add and subtract rational numbers in different forms (e.g. sum of fraction and decimal).	<b>7.NS.1 - Add and subtract rational numbers.</b>	Add and subtract integers.	40 days
Multiply and divide rational numbers in different forms (e.g. product of fraction and decimal).	<b>7.NS.2 - Multiply and divide rational numbers.</b>	Multiply and divide integers.	Unit Dates: October 24 - January 17
Evaluate order of operations problems with rational numbers involving numbers in different forms (e.g. fractions and decimals in the same problem).	<b>6.EE.1 - Evaluate order of operations problems with rational numbers involving whole number exponents.</b>	Evaluate order of operations problems involving whole number exponents.	5 days (Long Division)
N/A	<b>6.LT.0 - Demonstrate the ability to retain content knowledge when solving problems with ratios.</b>	Demonstrate ability to partially retain content knowledge over time.	Benchmark Dates: January 13-17
			Trimester #2
<b>Unit 3: Expressions</b>			
Solve for missing values in a problem involving two equivalent expressions.	<b>7.EE.1 - Apply properties of operations to generate equivalent expressions, including those with rational numbers.</b>	Apply properties of operations to generate equivalent expressions with integers.	25 days
Write complex expressions in which letters stand for numbers.	<b>6.EE.2 - Write expressions in which letters stand for numbers.</b>	Evaluate expressions in which letters stand for numbers. (Substitution)	Unit Dates: January 21 - February 25
N/A	<b>6.LT.0 - Demonstrate the ability to retain content knowledge when solving problems with rational numbers.</b>	Demonstrate ability to partially retain content knowledge over time.	Benchmark Dates: February 19 - 25
			Trimester #3
<b>Unit 4: Equations</b>			
Solve complex equations. (Rational numbers in different forms, both sides, etc)	<b>6.EE.7 - Write and solve one-step equations in a real-world context with rational numbers. (LESS)</b>	Solve one-step equations with whole numbers.	34 days
Solve complex equations. (Rational numbers in different forms, both sides, etc)	<b>7.EE.3 Write and solve two-step equations in a real-world context with rational numbers. (LESS)</b>	Solve two-step equations with whole numbers.	
Write a one-step inequality.	<b>6.EE.8 - Write an inequality of the form <math>x &gt; c</math> or <math>x &lt; c</math> to represent a constraint in real-world context (using <math>&lt;</math>, <math>&gt;</math>, <math>\leq</math>, <math>\geq</math>).</b>	Write an inequality from a representation on a number line.	
Write and apply a two-step, two-variable equation.	<b>6.EE.9 - Write and apply a one-step, two-variable equation.</b>	Identify the independent variable and dependent variable in a real-world problem.	
			Unit Dates: February 26 - May 1
			Benchmark Dates: April 27 - May 1
			Trimester #3

N/A	<b>6.LT.0 - Demonstrate the ability to retain content knowledge when solving problems with expressions.</b>	Demonstrate ability to partially retain content knowledge over time.	
<b>Unit 5: Geometry</b>			
Solve complex problems requiring decomposition and composition.	<b>6.G.4 - Find the surface area or volume of 3D shapes composed of rectangles and/or triangles.</b>	Find the area or perimeter of 2D shapes.	17 days Unit Dates: May 4 - May 28
N/A	<b>6.LT.0 - Demonstrate the ability to retain content knowledge when solving problems with equations.</b>	Demonstrate ability to partially retain content knowledge over time.	Benchmark Dates: May 18 - May 28 Trimester #3