

7<sup>th</sup> Grade Math

Unit 1: Ratios & Proportions

LT	Learning Targets	CCSS	Textbook						
<b>1A</b>	<b>I can explain the relationship between slope, constant of proportionality, and unit rate.</b>								
1A.1	I can calculate and interpret unit rates (constant of proportionality) of various quantities involving real-world examples.	7.RP.1 7.RP.2.b	1-1 1-3						
1A.2	I can simplify complex fractions.	7.RP.1	1-2						
1A.3	I can solve to prove if a relationship is proportional or non-proportional by identifying the constant of proportionality.	7.RP.2.b	1-4						
1A.4	I can use a graph to show if a relationship is proportional and state the constant of proportionality.	7.RP.2.a 7.RP.2.d	1-5 1-9						
1A.5	I can construct a proportion to solve for an unknown variable.	7.RP.2.b 7.RP.2.c	1-6						
1A.6	I can find the slope of the graph.	7.RP.2	1-7 1-8						
<b>1B</b>	<b>I can explain how the concepts of ratios, proportions, percents, and how they are related.</b>								
1B.1	I can find the percent of a number or find the missing percent.	7.RP.3	2-1 2-2 2-3 2-4 2-5						
1B.2	I can solve real world problems involving discounts, markups, tax and explain how percents and ratios are involved in finding the solution.	7.RP.3 7.EE.3	2-6 2-7						
1B.3	I can solve real world problems using simple interest. ( $I = prt$ )	7.RP.3	2-8						

7<sup>th</sup> Grade Math

Unit 2: Rational Numbers & Integers

LT	Learning Targets	CCSS	Textbook						
<b>2A</b>	<b>I can describe and model, on a horizontal or vertical number line, real-world situations for rational numbers and when rational numbers are combined to make 0.</b>								
2A.1	I can locate, order, and compare rational numbers on a number line.	7 N.S.1	3-1 4-1 4-2						
2A.2	I can explain the distance between two rational numbers using absolute value.	7 N.S.1	3-1						
2A.3	I can explain why a divisor cannot be zero and why division of integers results in a rational number.	7N.S. 2	3-5 4-2						
2A.4	I can convert a rational number to a decimal using long division and justify why the decimal is either a terminating or repeating decimal.	7N.S. 3	4-1						
<b>2B</b>	<b>I can apply the properties of operations as strategies to add, subtract, multiply, and divide rational numbers to solve real-world problems.</b>								
2B.1	I can add/subtract integers.	7N.S. 1	3-2 3-3						
2B.2	I can add/subtract rational (fractions) numbers.	7N.S. 1	4-3 4-4 4-5						
2B.3	I can multiply/divide integers.	7N.S. 2	3-4 3-5						
2B.4	I can multiply/divide rational (fractions) numbers.	7N.S. 2	4-6 4-8						
2B.5	I can convert between measurement systems. [dimensional analysis]	7N.S.2	4-7						

## 7<sup>th</sup> Grade Math

### Unit 3: Expressions, Equations, & Inequalities

LT	Learning Targets	CCSS	Textbook						
<b>3A</b>	<b>I can apply the properties of operations to simplify and evaluate algebraic expressions in real-world situations.</b>								
3A.1	I can solve and explain how substitution is used to evaluate expressions.	7.EE.1	5-1						
3A.2	I can use the distributive property to simplify or generate an equivalent expression.	7.EE.1	5-4						
3A.3	I can apply the properties to simplify or generate equivalent expressions.	7.EE.1	5-3 5-5						
3A.4	I can apply properties to add and subtract linear expressions.	7.EE.1	5-6 5-7						
3A.5	I can apply properties to factor a linear expression.	7.EE.1	5-8						
<b>3B</b>	<b>I can apply and model the properties of equality to solve equations algebraically in real-world situations.</b>								
3B.1	I can solve one-step equations by adding/subtracting.	7.EE.4.a	6-1						
3B.2	I can solve one-step equations by multiplying/dividing. (rational coefficients)	7.EE.4.a	6-2 6-3						
3B.3	I can solve two step equations.	7.EE.4.a	6-4 6-5						
<b>3C</b>	<b>I can apply and model the properties of inequalities to solve inequalities algebraically in real-world situations and justify when more than one solution is necessary.</b>								
3C.1	I can graph inequalities.	7.EE.4.b							
3C.2	I can solve one-step inequalities by adding/subtracting.	7.EE.4.b	6-6						
3C.3	I can solve one-step inequalities by multiplying/dividing.	7.EE.4.b	6-7						
3C.4	I can solve two-step inequalities.	7.EE.4.b	6-8						

7<sup>th</sup> Grade Math

Unit 4: Geometry

LT	Learning Targets	CCSS	Textbook						
4A	<b>I can use geometry and spatial sense to offer ways to envision, interpret, and reflect on the world around us.</b>								
	4A.1 I can use understandings of supplementary, complementary, vertical and adjacent angles to write and solve equations for missing measurements.	7.G.5	7-1 7-2						
	4A.2 I can find an unknown angle using the Triangle Sum Theorem.	7.G.5	7-3						
	4A.3 I can find the radius, diameter, or circumference of a circle.	7.G.4	8-1						
	4A.4 I can find the area of circles and composite figures.	7.G.4 7.G.6	8-2 8-3						
	4A.5 I can find the volume of 3-D figures, including composite figures.	7.G.6	8-4 8-5						
	4A.6 I can find the surface area of 3-D figures.	7.G.6	8-6 8-7 8-8						