

Common Core Standards Mathematical Practices	Essential Questions	Skills and Understanding	Resources	Estimated Time
6.RP.c 6.RP.d MP1: Makes sense of problems and persevere in solving them MP 3: Construct viable arguments and critique the reasoning of others MP 4: Model with mathematics	FRACTIONS/DECIMALS/ PERCENTS When is it better to use a fraction, a decimal, or a percent?	<ul style="list-style-type: none"> • Multi-digit division • Decimals as fractions/mixed numbers • Percents as decimals/decimal as percent • Compare and order fractions, decimals, and percents • Estimate the percent of a number • Find the percent of a number • Solve percent problems involving finding the whole or part 	Illuminations Mathematical Practices Inside Mathematics Book: Topic 5- pages 119-140 Topic 6- pages 143-158	
6.NS.1 MP1: Makes sense of problems and persevere in solving them MP 3: Construct viable arguments and critique the reasoning of others MP 4: Model with mathematics	FRACTIONS What does it mean to multiply and divide fractions?	<ul style="list-style-type: none"> • Estimate products of fractions • Multiply fractions and whole numbers • Multiply mixed numbers • Solve problems by drawing a diagram • Divide whole numbers by fractions • Divide fractions • Divide mixed numbers 	Book: Topic 8- pages 185-198 Topic 9- pages 201-218	

<p>6.NS.3 6.NS.4 6.EE.2 6.EE.2a 6.EE.2b 6.EE.2c 6.EE.3 6.EE.4 MP1: Makes sense of problems and persevere in solving them MP 3: Construct viable arguments and critique the reasoning of others MP 4: Model with mathematics</p>	<p>EXPRESSIONS AND EQUATIONS How is it helpful to write numbers in different ways?</p>	<ul style="list-style-type: none"> • Represent numbers using exponents • Find the value of numerical expressions using order of operations • Find the value of algebraic expressions using order of operations • Write verbal phrases as simple algebraic expressions, including using models • Use properties to simplify expressions • Model the distributive property and use distributive property to compute multiplication problems mentally and to rewrite algebraic expressions • To simplify expressions using models and properties 	<p>Mathematics Toolkit Topic 4- pages 95-116</p>	
<p>6.NS.8 6.G.1 6.3.G MP1: Makes sense of problems and persevere in solving them MP 3: Construct viable arguments and critique the reasoning of others MP 4: Model with mathematics</p>	<p>GEOMETRY How can you use different measurements to solve real-life problems?</p>	<ul style="list-style-type: none"> • Use models to find area of parallelograms and trapezoids • Find the area of missing dimensions of parallelograms and trapezoids • Solve problems by drawing a diagram • Determine effects of changing dimension on perimeter and area 	<p>Problem Solving Topic 16- pages 399-422 Topic 17- pages 425-450 Topic 18- pages 453-472</p>	

<p>6.SP.1 6.SP.3 6.SP.5 6.SP.5b 6.SP.5.c 6.SP.5.d MP1: Makes sense of problems and persevere in solving them MP 3: Construct viable arguments and critique the reasoning of others MP 4: Model with mathematics</p>	<p>STATISTICS AND PROBABILITY How are the mean, median, and mode helpful in describing data?</p>	<ul style="list-style-type: none"> • Recognize a statistical question as one that anticipates and accounts for a variety of answers • Find the mean of a set of data • Find and interpret median and mode of a set of data • Use logical reasoning to solve problems • Find the measures of variation • Find and interpret the mean absolute deviation for a data set 	<p>Topic 20- pages 519-555</p>	
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