














	Topic (Unit)	LESSONS	Standards	Length of Time
FIRST 9 WEEKS	<b>TOPIC 1</b> REAL NUMBERS	1-1 Rational Numbers as Decimals 1-2 Understand Irrational Numbers 1-3 Compare and Order Real Numbers 1-4 Evaluate Square Roots and Cube Roots 1-5 Solve Equations Using Square Roots and Cube Roots 1-6 Use Properties of Integer Exponents 1-7 More Properties of Exponents 1-8 Use powers of 10 to Estimate Quantities 1-9 Understand Scientific Notation 1-10 Operations with Numbers in Scientific Notation	<a href="#">8.NS.1.1</a> , <a href="#">8.NS.1.2</a> , <a href="#">8.EE.1.1</a> , <a href="#">8.EE.1.2</a> , <a href="#">8.EE.1.4</a>	18 DAYS
	<b>TOPIC 2</b> SOLVE PROBLEMS USING EQUATIONS	2-1 Write Two-Step Equations 2-2 Solve Two-Step Equations 2-3 Solve Equations Using the Distributive Property	<a href="#">7.EE.2.3</a>  <a href="#">7.EE.2.4a</a>  <a href="#">7.EE.2.4b</a> 	8 DAYS
	<b>TOPIC 3</b> ANALYZE AND SOLVE PERCENT LINEAR EQUATIONS	3-1 Combine Like Terms to Solve Equations 3-2 Solve Equations with Variables on Both Sides 3-3 Solve Multistep Equations 3-4 Equations with No Solutions or Infinitely Many Solutions 3-5 Compare Proportional Relationships 3-6 Connect Proportional Relationships 3-7 Analyze Linear Equations: $y = mx$ 3-8 Understand the y-intercept of a Line 3-9 Analyze Linear Equations: $y = mx + b$	<a href="#">8.EE.2.5</a>  <a href="#">8.EE.2.6</a>  <a href="#">8.EE.3.7a</a>  <a href="#">8.EE.3.7b</a> 	18 DAYS
SECOND 9 WEEKS	<b>TOPIC 4</b> USE FUNCTIONS TO MODEL RELATIONSHIPS	4-1 Understand Relations & Functions 4-2 Connect Representations of Functions 4-3 Compare Linear & Nonlinear Functions 4-4 Construct Functions to Model Linear Relationships 4-5 Intervals of Increase & Decrease 4-6 Sketch Functions from Verbal Descriptions	<a href="#">8.F.1.1</a> <a href="#">8.F.1.2</a>  <a href="#">8.F.1.3</a>  <a href="#">8.F.2.4</a> <a href="#">8.F.2.5</a>	15 DAYS
	<b>TOPIC 5</b> INVESTIGATE BIVARIATE DATA	5-1 Construct & Interpret Scatter Plots 5-2 Analyze Linear Associations 5-3 Use Linear Models to Make Predictions 5-4 Interpret Two-Way Frequency Tables 5-5 Interpret Two-Way Relative Frequency Tables	<a href="#">8.SP.1.1</a> <a href="#">8.SP.1.2</a> <a href="#">8.SP.1.3</a> <a href="#">8.SP.1.4</a> 	10 DAYS
	<b>TOPIC 6</b> ANALYZE AND SOLVE SYSTEMS OF LINEAR EQUATIONS	6-1 Estimate Solutions by Inspection 6-2 Solve Systems by Graphing 6-3 Solve Systems by Substitution	<a href="#">8.EE.3.8a</a>  <a href="#">8.EE.3.8b</a>  <a href="#">8.EE.3.8c</a>  <a href="#">8.SP.1.3</a> <a href="#">8.F.2.4</a>	10 DAYS

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THIRD 9 WEEKS	<b>TOPIC 7</b> CONGRUENCE AND SIMILARITY	7-1 Analyze Translations 7-2 Analyze Reflections 7-3 Analyze Rotations 7-4 Compose Transformations 7-5 Understand Congruent Figures 7-6 Describe Dilations 7-7 Understand Similar Figures 7-8 Angles, Lines, & Transversals 7-9 Interior and Exterior Angles of Triangles 7-10 Angle-Angle Triangle Similarity	<a href="#">8.G.11a</a> , <a href="#">8.G.11.b</a> , <a href="#">8.G.1.1c</a> , <a href="#">8.G.1.2</a> , <a href="#">8.G.1.3</a> , <a href="#">8.G.1.4</a> , <a href="#">8.G.1.5</a>	18 DAYS
	<b>TOPIC 8</b> UNDERSTAND AND APPLY PYTHAGOREAN THEOREM	8-1 Understand the Pythagorean Theorem 8-2 Understand the Converse of the Pythagorean Theorem 8-3 Apply the Pythagorean Theorem to Solve Problems 8-4 Find Distance in the Coordinate Plane	<a href="#">8.G.2.6</a> <a href="#">8.G.2.7</a> <a href="#">8.G.2.8</a>	10 DAYS
	<b>TOPIC 9</b> SOLVE PROBLEMS INVOLVING GEOMETRY	9-3 Draw Triangles with Given Conditions 9-4 Solve Problems Using Angle Relationships 9-5 Solve Problems Involving Circumference of a Circle 9-6 Solve Problems Involving Area of a Circle 9-7 Describe Cross Sections 9-9 Solve Problems Involving Volume	<a href="#">7.G.1.2</a> , <a href="#">7.G.1.3</a> <a href="#">7.G.2.4</a> , <a href="#">7.G.2.5</a> <a href="#">7.G.2.6</a> , <a href="#">7.NS.1.3</a>	10 DAYS
	<b>TOPIC 10</b> SOLVE PROBLEMS INVOLVING GEOMETRY  <b>&amp; TOPIC 9</b> SOLVE PROBLEMS INVOLVING GEOMETRY	10-2 Find Volume of Cylinders 10-3 Find Volume of Cones 10-4 Find Volume of Spheres  9-1 Solve Problems Involving Scale Drawings 9-2 Draw Geometric Figures	<a href="#">8.G.3.9</a>  <a href="#">7.G.1.1</a> <a href="#">7.G.1.2</a>	6 DAYS
FOURTH 9 WEEKS	<b>TOPIC 11</b> USE SAMPLING TO DRAW INFERENCES	11-1 Populations & Samples 11-2 Draw Inferences from Data 11-3 Make Comparative Inferences About Populations 11-4 Make More Comparative Inferences About Populations	<a href="#">7.SP.1.1</a> , <a href="#">7.SP.1.2</a> , <a href="#">7.SP.2.3</a> , <a href="#">7.SP.2.4</a>	6 DAYS
	<b>TOPIC 12</b> PROBABILITY	12-1 Understand Likelihood & Probability 12-2 Understand Theoretical Probability 12-3 Understand Experimental Probability 12-4 Use Probability Models 12-5 Determine Outcomes of Compound Events 12-6 Find Probabilities of Compound Events 12-7 Simulate Compound Events	<a href="#">7.SP.3.5</a> , <a href="#">7.SP.3.6</a> , <a href="#">7.SP.3.7a</a> , <a href="#">7.SP.3.7b</a> , <a href="#">7.SP.3.8a</a> , <a href="#">7.SP.3.8b</a>	10 DAYS
	<b>Review for FSA</b>		<b>FSA TESTING WINDOW – BEGINS MAY 1ST</b>	
	<b>Topic 2</b> SOLVE PROBLEMS USING EQUATIONS	2-4 Solve Inequalities Using Addition or Subtraction 2-5 Solve Inequalities Using Multiplication or Division 2-6 Solve Two-Step Inequalities 2-7 Solve Multi-Step Inequalities	<a href="#">7.EE.2.4b</a>	10 DAYS
	<b>Prep for Algebra 1</b>			