

Math: Grade 7 Advanced

UNIT/Weeks (not consecutive)	Timeline/Topics	Essential Questions
3.6	<p>The Number System</p> <p>Module 1: Adding and Subtracting Integers</p> <p>Module 2: Multiplying and Dividing Integers</p> <p>Module 3: Rational Numbers</p>	<ul style="list-style-type: none"> • How can you use addition and subtraction of integers to solve real-world problems? • How can you use multiplication and division of integers to solve real-world problems? • How can you use rational numbers to solve real-world problems?
2.6	<p>Ratios and Proportional Relationships</p> <p>Module 4: Rates and Proportionality</p> <p>Module 5: Proportions and Percents</p>	<ul style="list-style-type: none"> • How can you use rates and proportionality to solve real-world problems? • How can you use proportions and percents to solve real-world problems?
1.8	<p>Expressions, Equations, and Inequalities</p> <p>Module 6: Expressions and Equations</p> <p>Module 7: Inequalities</p>	<ul style="list-style-type: none"> • How can you use algebraic expressions and equations to solve real-world problems? • How can you use inequalities to solve real-world problems?
3	<p>Geometry</p> <p>Module 8: Modeling Geometric Figures</p> <p>Module 9: Circumference, Area, and Volume</p>	<ul style="list-style-type: none"> • How can you use proportions to solve real-world problems? • How can you apply geometry concepts to solve real-world problems?
2.2	<p>Statistics</p> <p>Module 10: Random Samples and Populations</p>	<ul style="list-style-type: none"> • How can you use random samples and populations to solve real-world problems?

	Module 11: Analyzing and Comparing Data	<ul style="list-style-type: none"> How can you solve real-world problems by analyzing and comparing data?
2.6	<p>Probability</p> <p>Module 12: Experimental Probability</p> <p>Module 13: Theoretical Probability and Simulations</p>	<ul style="list-style-type: none"> How can you use experimental probability to solve real-world problems? How can you use theoretical probability to solve real-world problems?
2.4	<p>Real Numbers, Exponents, and Scientific Notation</p> <p>Module 14: Real Numbers</p> <p>Module 15: Exponents and Scientific Notation</p>	<ul style="list-style-type: none"> How can you use real numbers to solve real-world problems? How can you describe relationships between sets of real numbers? How can you use scientific notation to solve real-world problems?
6.2	<p>Linear Relationships and Equations</p> <p>Module 16: Proportional Relationships</p> <p>Module 17: Nonproportional Relationships</p> <p>Module 18: Solving Linear Equations</p>	<ul style="list-style-type: none"> How can you use linear equations to solve real world problems?
4.4	<p>Transformational Geometry</p> <p>Module 19: Transformations and Congruence</p> <p>Module 20: Transformations and Similarity</p>	<ul style="list-style-type: none"> How can you use transformations and congruence to solve real world problems? How can you describe the effect of a dilation on the coordinates using an algebraic representation?

3.6	Measurement Geometry Module 21: Angle Relationships in Parallel Lines and Triangles Module 22: Volume	<ul style="list-style-type: none">• How can you use angle relationships in parallel lines and triangles to solve real world problems?• What can you conclude about the measures of the angles of a triangle?• How can you use the Pythagorean Theorem to solve real world problems?