TIME	CONTENT	SKILLS	ASSESSMENTS
September	UNIT 1: Coordinate Geometry/Transformational Geometry  What does transform mean?  What did Pythagoras discover about a right triangle?  Where/when can we apply these skills in the real world?  Transformation  Similarity  Symmetry  Congruency  Reflection  Rotation  Dilation  Translation  Preserved  Not preserved	<ul> <li>Transform figures by reflection, translation, rotation, and dilation</li> <li>Identify parts of a right triangle</li> <li>Apply the Pythagorean Theorem</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Journal entries</li> <li>Benchmark</li> </ul>

TIME	CONTENT	SKILLS	ASSESSMENTS
September	<ul> <li>WNIT 2: Number Theory*</li> <li>Why have divisibility rules?</li> <li>How do you distinguish between rational and irrational numbers?</li> <li>Number sets</li> <li>Properties</li> <li>Prime/composite</li> <li>Divisibility rules</li> </ul>	<ul> <li>Use divisibility rules</li> <li>Identify the set to which a number belongs</li> </ul>	<ul><li>Tests</li><li>Quizzes</li><li>Journal entries</li></ul>
October	<ul> <li>UNIT 3: Integral Exponential Operations</li> <li>What is exponential notation?</li> <li>What does integral refer to?</li> <li>Common bases</li> <li>Exponents</li> </ul>	<ul> <li>Evaluate exponents</li> <li>Recognize when to apply Order of Operations</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Journal entries</li> <li>Benchmark</li> </ul>

TIME	CONTENT	SKILLS	ASSESSMENTS
November	<ul> <li>UNIT 4: Expressions, Equations, and Inequalities</li> <li>How is math like a foreign language?</li> <li>Coefficient</li> <li>Variable</li> <li>Inequality</li> </ul>	<ul> <li>Solve multi-step inequalities and graph the solution on a number line</li> <li>Translate English to math word problems to algebraic expressions/equations/inequalities and vice versa</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Journal entry</li> <li>Benchmark</li> </ul>
December	<ul> <li>UNIT 5: Operations With Polynomials</li> <li>What is a polynomial?</li> <li>What differences exist between a linear equation and a quadratic equation?</li> <li>Greatest common factor</li> <li>Relationship between the distributive property and factoring</li> </ul>	<ul> <li>Use the distributive property</li> <li>Find the greatest common factor and factor algebraic expressions</li> <li>Perform operations with polynomials</li> <li>Factor a trinomial in the form ax² + bx + c</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Journal entries</li> <li>Benchmark</li> </ul>

TIME	CONTENT	SKILLS	ASSESSMENTS
January	<ul> <li>UNIT 6: Ratios, Proportions, and Percents</li> <li>What makes a person an educated consumer?</li> <li>Conversion</li> <li>Percents less than 1% and greater than 100%</li> <li>Percent as a comparison to 100</li> <li>Unit rate</li> </ul>	<ul> <li>Simplify ratios to prove equivalence</li> <li>Use proportions for percent calculations, unit rate, and map scale distances</li> <li>Use exchange rate table for monetary conversions</li> <li>Estimate</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Midterm examination</li> <li>Benchmark</li> <li>Journal entries</li> </ul>
February	<ul> <li>UNIT 7: Geometric Relationships</li> <li>Why are proofs important?</li> <li>What is the difference between a formal and an informal proof?</li> <li>Transversal</li> <li>Parallel lines</li> </ul>	<ul> <li>Identify, calculate, and determine angle pair relationships when given two parallel lines cut by a transversal</li> <li>Use algebra to determine missing angle measurements</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Benchmark</li> <li>Journal entry</li> </ul>

TIME	CONTENT	SKILLS	ASSESSMENTS
February	<ul> <li>UNIT 8: Introduction to Linear Equations</li> <li>How can a line graph represent a real situation?</li> <li>A table of values can represent a linear equation</li> <li>A line consists of an infinite number of points</li> <li>Positive vs. negative</li> </ul>	<ul> <li>Graph linear equations using a table</li> <li>Interpret graphs</li> <li>Identify sign of slope</li> </ul>	<ul><li>Tests</li><li>Quizzes</li><li>Journal entry</li><li>Benchmark</li></ul>
March - Apr	<ul> <li>UNIT 9: Linear Equations</li> <li>How can you graph a line without a table of values?</li> <li>Why is the slope of any given line a constant?</li> <li>What is a system of equations?</li> <li>Linear vs. nonlinear</li> <li>System of equations</li> <li>Rate of change as related to slope</li> </ul>	<ul> <li>Graph a line using slope-intercept method</li> <li>Determine the slope and y-intercept of a given line</li> <li>Determine the solution given the graph of a system of equations</li> <li>Recognize quadratics in table, graph, or equation form</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Benchmark</li> <li>Journal entries</li> </ul>

TIME	CONTENT	SKILLS	ASSESSMENTS
M a y	<ul> <li>UNIT 10: Functions and Relations</li> <li>How is a pasta/bread machine like a function?</li> <li>How do you tell the difference between a relation and a function?</li> <li>Function vs. relation</li> <li>Domain vs. range</li> <li>Function notation</li> </ul>	<ul> <li>Use a vertical line test to determine a function</li> <li>Use technical writing and mathematical language as related to function notation</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Benchmark</li> <li>Journal entry</li> </ul>
June	<ul> <li>What are constructions?</li> <li>Bisect</li> <li>Equidistant</li> </ul>	<ul> <li>Use a compass</li> <li>Use a protractor</li> <li>Replicate a procedure</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> <li>Benchmark</li> <li>Final examination</li> </ul>