TIME *	CONTENT	SKILLS	ASSESSMENTS
2-3 Weeks	<ul> <li>UNIT 1: Signed Numbers/Integers</li> <li>Application of signed numbers</li> <li>Comparing/ordering</li> <li>Exponents on integers (powers of negative numbers)</li> </ul>	<ul> <li>Add using a number line</li> <li>Add using manipulatives</li> <li>Subtract by changing to an addition problem</li> <li>Multiply</li> <li>Divide</li> </ul>	<ul><li>Tests</li><li>Quizzes</li></ul>
2 Weeks	<ul> <li>UNIT 2: Order of Operations and Evaluating</li> <li>Algebraic Expressions</li> <li>Simplifying using the order of operations</li> <li>Evaluating algebraic expressions</li> </ul>	<ul> <li>Simplify fractions</li> <li>Evaluate algebraic expressions</li> </ul>	<ul><li>Tests</li><li>Quizzes</li></ul>
2 Weeks	<ul> <li><u>UNIT 3: Fractions</u></li> <li>Comparing fractions</li> <li>Adding, subtracting, multiplying, and dividing fractions</li> <li>Applications of fractions</li> </ul>	<ul> <li>Compare fractions</li> <li>Add, subtract, multiply, and divide fractions</li> </ul>	<ul><li>Tests</li><li>Quizzes</li><li>Fraction Project</li></ul>
2-3 Weeks	<ul> <li>UNIT 4: Algebraic Expressions/ Introduction to Polynomials</li> <li>Adding and subtracting (combining like terms)</li> <li>Applications – perimeter, area, etc.</li> </ul>	<ul> <li>Multiply using exponents</li> <li>Multiply using the distributive property</li> <li>Divide</li> </ul>	<ul><li>Tests</li><li>Quizzes</li></ul>
2-3 Weeks	<ul> <li>UNIT 5: Math Properties</li> <li>Commutative property</li> <li>Associative property</li> <li>Additive identity</li> <li>Additive inverse</li> <li>Multiplicative identity</li> <li>Multiplicative property of 0</li> </ul>		<ul><li>Tests</li><li>Quizzes</li></ul>

\*Pre Math A was designed to be flexible in meeting the needs of the particular students enrolled in any given year. The amount of time allotted for each unit may vary.

TIME	CONTENT	SKILLS	ASSESSMENTS
8-12 Weeks	<ul> <li>UNIT 6: Solving and Checking First Degree Equations and Inequalities</li> <li>Checking whether a number is a solution to a given equation</li> <li>Solving one-step equations (using opposite operations)</li> <li>Solving two-step equations (using opposite operations)</li> <li>Equations involving combining like terms</li> <li>Equations with variables on both sides</li> <li>All of the above types of equations involving negative coefficients</li> <li>Checking a solution in an equation to verify the accuracy of the solution</li> <li>Finding solutions to inequalities by checking given solutions</li> </ul>	Solve one- and two-step equations using opposite operations	<ul> <li>Tests</li> <li>Quizzes</li> <li>Mid-term Examination</li> </ul>
3-4 Weeks	<ul> <li>UNIT 7: Ratio, Proportion, Percents, and Similar Triangles</li> <li>Ways to represent ratios, e.g., 5:8, 5 to 8, 5/8, etc.</li> <li>Simplifying ratios</li> <li>Determining whether or not ratios are equivalent</li> <li>Solving proportions</li> <li>Using proportions in problem solving</li> <li>Percents <ul> <li>Definition of percent</li> <li>Converting between percents, fractions, and decimals</li> <li>Using percents in word problems – using proportions</li> </ul> </li> <li>Similar triangles and similar figures <ul> <li>Solving for missing sides of similar figures – using proportions</li> <li>Shadow problems and indirect measurement</li> </ul> </li> </ul>	<ul> <li>Use proportions to solve problems</li> <li>Convert between percents, fractions, and decimals</li> <li>Solve for missing sides of similar figures using proportions</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> </ul>

	Pre-matri A			
TIME	CONTENT	SKILLS	ASSESSMENTS	
2 Weeks	<ul> <li><u>UNIT 8: The Pythagorean Theorem</u></li> <li>Right triangles</li> <li>Squares and rectangles</li> </ul>	<ul> <li>Given both legs, solve for the hypotenuse</li> <li>Given one leg and the hypotenuse, solve for the other leg</li> <li>Find the length of the diagonal given side length(s)</li> <li>Find the length of a side given the length of the diagonal of a square</li> <li>Find the length of a side of a rectangle given the lengths of the diagonal and the other side</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> </ul>	
5 Weeks	<ul> <li>UNIT 9: Geometry (Integrated with Algebra)</li> <li>Types of angles</li> <li>Complimentary and supplementary angles</li> <li>Linear pairs</li> <li>Vertical angles</li> <li>Triangles (sum of the angles in a triangle is 180°)</li> <li>Classification of triangles</li> <li>Isosceles triangles</li> <li>Exterior angles of a triangle</li> <li>Parallel lines cut by a transversal</li> </ul>		<ul> <li>Tests</li> <li>Quizzes</li> </ul>	

TIME	CONTENT	SKILLS	ASSESSMENTS
3 Weeks	<ul> <li>UNIT 10: Algebraic Expressions and Verbal Expressions</li> <li>Translating verbal expressions into algebraic expressions</li> <li>Identifying and using addition phrases – e.g., increased by, more than, sum, etc. <ul> <li>Identifying and using subtraction phrases – e.g., decreased by, less than, difference, etc.</li> <li>Identifying and using multiplication phrases – e.g., product, times, half of, etc.</li> <li>Identifying and using division phrases – e.g., quotient, half of, etc.</li> </ul> </li> <li>Defining a variable/writing "let statements"</li> <li>Translating verbal equations into algebraic equations</li> </ul>	Translate verbal expressions into algebraic expressions	<ul> <li>Tests</li> <li>Quizzes</li> </ul>

2-3 Weeks	<ul> <li>UNIT 11: Area and Perimeter</li> <li>Applications of area and perimeter</li> <li>Area of polygons         <ul> <li>Area involving sides whose lengths are represented by monomials/polynomials</li> </ul> </li> <li>Perimeter of polygons</li> </ul>	<ul> <li>Use formulas to find areas of squares, rectangles, parallelograms, triangles, and trapezoids</li> <li>Use addition to find perimeter</li> <li>Use multiplication/distributive property to find perimeter of figures with repeated side lengths – e.g., square, rectangles, parallelograms,</li> </ul>	<ul> <li>Tests</li> <li>Quizzes</li> </ul>
		equilateral triangles	

TIME	CONTENT	SKILLS	ASSESSMENTS
2 Weeks	UNIT 12: Coordinate Geometry		Quizzes
	Plotting points		Tests
	<ul> <li>Labeling axes and quadrants</li> </ul>		
	<ul> <li>Graphing lines – using a table only</li> </ul>		