


8th Grade Algebra I



<u>1st Six Weeks</u>	<u>2nd Six Weeks</u>	<u>3rd Six Weeks</u>	<u>4th Six Weeks</u>	<u>5th Six Weeks</u>	<u>6th Six Weeks</u>
<p><i>Pre-Test</i></p> <ul style="list-style-type: none"> *patterns (geometric, arithmetic, Fibonacci) *order of operations *compare and order rational numbers *add, subtract, multiply and divide rational numbers *find square roots *evaluate expressions *use the distributive property and combine like terms *solve equations with one or more operations *define and study angles and triangles *solve equations for the variable specified *find measures *properties <p>Six Weeks Test</p> 	<p><i>Pre-Test</i></p> <ul style="list-style-type: none"> *Find unknown measures of the sides of two similar triangles *solve percent problems *Find probability of simple and compound events *solve proportions <p>Six Weeks Test</p>	<p><i>Pre-Test</i></p> <ul style="list-style-type: none"> *graph ordered pairs, identify domain and range *to show relations as sets of ordered pairs, tables and *graph linear equations *find slope given two points *write linear equations in point-slope, standard and slope-intercept form *draw a scatter plot and find line of best fit *use slope to determine if lines are parallel or perpendicular <p>Six Weeks Test</p>	<p><i>Pre-Test</i></p> <ul style="list-style-type: none"> *solve inequalities *find solutions for systems of equations by graphing, elimination and substitution *organize data to solve problems involving systems of equations *multiply and divide monomials *add, subtract and multiply polynomials *express numbers in scientific notation <p>Six Weeks Test</p>	<p><i>Pre-Test</i></p> <ul style="list-style-type: none"> *geometry- surface area and volume *changes in surface area and volume when dimensions are changed *Pythagorean theorem <p>Six Weeks Test</p>	<p><i>Pre-Test</i></p> <ul style="list-style-type: none"> *factor polynomials *use the zero product property to solve equations *explore quadratic and exponential functions *find the axis of symmetry and coordinate of vertex *find roots of quadratic equations by graphing and by using the quadratic formula *explore problems involving growth and decay <p>Six Weeks Test</p> <p>Post Test Sixth Grade Level</p>

The Objectives are only a guide and may not be taught during the six weeks listed.