

**Algebra-6<sup>th</sup> Grade; 3<sup>rd</sup> Trimester (First nine weeks)**

Standards	Vocabulary	Assessments/Activities	Resources
<p><b><u>Calculate rates</u></b>  <b>A.PA.06.01</b> Solve applied problems involving rates, including speed, e.g., if a car is going 50 mph, how far will it go in 3 1/2 hours?</p> <p><b><u>Understand the coordinate plane</u></b>  <b>A.RP.06.02</b> Plot ordered pairs of integers and use ordered pairs of integers to identify points in all four quadrants of the coordinate plane.</p> <p><b><u>Use variables, write expressions and equations, and combine like terms</u></b>  <b>A.FO.06.03</b> Use letters, with units, to represent quantities in a variety of contexts, e.g., y lbs., k minutes, x cookies.</p> <p><b>A.FO.06.04</b> Distinguish between an algebraic expression and an equation.</p> <p><b>A.FO.06.05</b> Use standard conventions for writing algebraic expressions, e.g., <math>2x + 1</math> means "two times x, plus 1" and <math>2(x + 1)</math> means "two times the quantity (x + 1)."</p> <p><b>A.FO.06.06</b> Represent information given in words using algebraic expressions and equations.</p> <p><b>A.FO.06.07</b> Simplify expressions of the first degree by combining like terms, and evaluate using specific values.</p> <p><b><u>Represent linear functions using tables, equations, and graphs</u></b>  <b>A.RP.06.08</b> Understand that relationships between quantities can be suggested by graphs and tables.</p>	<p>change  coordinate graph  coordinate pair  dependent variable  distance/time/rate of speed  formula  income/cost/profit  independent variable  pattern  relationship  rule  scale  symbolic form  table  variable  x-axis  x-coordinate  y-axis  y-coordinate</p>	<p>Investigations and ACE assignments from Connected Math</p> <p>Quizzes and tests from Connected Math and ExamView</p>	<p><u>Variables &amp; Patterns</u>:  Connected Math; Prentice Hall</p> <p><u>Arithmetic Developed</u>  <u>Daily-Grade 5 &amp; 6</u>; GROW Publications</p>

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<p><b>A.PA.06.09</b> Solve problems involving linear functions whose input values are integers; write the equation; graph the resulting ordered pairs of integers, e.g., given <math>c</math> chairs, the "leg function" is <math>4c</math>; if you have 5 chairs, how many legs?; if you have 12 legs, how many chairs?</p> <p><b>A.RP.06.10</b> Represent simple relationships between quantities using verbal descriptions, formulas or equations, tables, and graphs, e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches.</p> <p><b><u>Solve equations</u></b></p> <p><b>A.FO.06.11</b> Relate simple linear equations with integer coefficients, e.g., <math>3x = 8</math> or <math>x + 5 = 10</math>, to particular contexts and solve.</p> <p><b>A.FO.06.12</b> Understand that adding or subtracting the same number to both sides of an equation creates a new equation that has the same solution.</p> <p><b>A.FO.06.13</b> Understand that multiplying or dividing both sides of an equation by the same non-zero number creates a new equation that has the same solutions.</p> <p><b>A.FO.06.14</b> Solve equations of the form <math>ax + b = c</math>, e.g., <math>3x + 8 = 15</math> by hand for positive integer coefficients less than 20, use calculators otherwise, and interpret the results.</p>			