

<b>ALGEBRA A Student Learning Targets</b>	<b>Mastery</b>
<b>Big Idea: Real Number Sense</b>	
1. <i>I can find and equivalent forms for fractions, decimals, and percents.</i>	
2. <i>I can compare and order fractions, decimals, and percents.</i>	
3. <i>I can add, subtract, multiply, and divide with fractions (including negative fractions).</i>	
4. <i>I can add, subtract, multiply, and divide with decimals (including negative fractions).</i>	
5. <i>I can add, subtract, multiply, and divide with integers.</i>	
6. <i>I can compute square roots of perfect squares.</i>	
7. <i>I can simplify expressions with exponents.</i>	
8. I can define and classify rational and irrational numbers. I can classify pi and square roots of non-perfect square numbers as irrational.	
9. I can place rational and irrational numbers on a number line between two integers.	
10. I can evaluate and simplify numerical expressions containing rational numbers, exponents, and square roots using the order of operations.	
11. I can solve real world problems involving rational numbers (estimating answers, representing answers in exact form, and determining the reasonableness of answers).	
<b>Big Idea: Algebra Skills</b>	
12. I can simplify algebraic expressions using the order of operations and algebraic properties.	
13. I can simplify algebraic expressions using exponent rules.	
14. I can evaluate algebraic expressions (including those with exponents) and formulas.	
15. I can solve multi-step linear equations and inequalities (algebraically and graphically), including those that must be simplified on one side or those with variables on both sides of an equation.	
16. I can solve equations for a specified variable.	
17. <i>I can write (and solve) equations that represent real world situations.</i>	
<b>Big Idea: Proportional Reasoning</b>	
18. I can set up and solve problems involving proportional reasoning (in a variety of contexts) using variables.	
19. I can solve real-world problems involving unit rates and constant rates of change.	
20. I can use proportions to draw and interpret scale drawings.	
21. I can use proportions to find missing measures in similar figures.	
22. I can use proportions to solve problems involving percentages.	
<b>Big Idea: Slope, Linear Relationships</b>	
23. I can write algebraic expressions or equations to generalize visual patterns, numerical patterns, and data sets.	
24. I can interpret the slope of a line as a constant rate of change in real-world situations.	
25. I can identify the slope of a line (including horizontal and vertical lines) when given any of the following: <ul style="list-style-type: none"> <li>○ a graph of a line</li> <li>○ data points</li> <li>○ a table of data</li> <li>○ <i>an equation</i></li> </ul>	
26. I can identify horizontal and vertical lines given the slope.	
27. I can <i>explain linear relationship stories using graphs, tables, or equations. I can make connections between the graphs, tables, and equations.</i>	
28. I can identify the x- and y-intercepts from an equation, graph of a line, or table of values. <i>I can explain what the x- and y-intercept of a graph mean in a real world situation.</i>	
29. I can graph linear equations and inequalities by plotting points or by finding x- and y-intercepts.	
30. I can distinguish between linear and nonlinear functions by examining an equation, data in a table, or a graph.	
<b>Big Idea: Geometry and Measurement</b>	
31. I can measure real life objects using a variety of tools and techniques.	
32. I can derive and apply geometric measurement formulas.	
<b>Big Idea: Simplifying Expressions with Square Roots</b>	
33. I can simplify, add, subtract, multiply, and divide expressions with square roots.	
34. I can use the Pythagorean Theorem to find any missing side of a right triangle.	