

**Algebra 1 ©2022**  
**Learning Targets and Success Criteria**

		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 1: Solving Linear Equations</b>			
<p><b><u>Chapter Learning Target</u></b> Understand solving linear equations.</p> <p><b><u>Chapter Success Criteria</u></b></p> <ul style="list-style-type: none"> <li>I can solve simple and multi-step equations.</li> <li>I can describe how to solve equations.</li> <li>I can analyze the measurements used to solve a problem and judge the level of accuracy appropriate for the solution.</li> <li>I can apply equation-solving techniques to solve real-life problems.</li> </ul>	1.1 Solving Simple Equations	Write and solve one-step linear equations.	<ul style="list-style-type: none"> <li>I can apply properties of equality to produce equivalent equations.</li> <li>I can solve linear equations using addition, subtraction, multiplication, or division.</li> <li>I can write linear equations that model real-life situations.</li> </ul>
	1.2 Solving Multi-Step Equations	Write and solve multi-step linear equations.	<ul style="list-style-type: none"> <li>I can apply more than one property of equality to produce equivalent equations.</li> <li>I can solve multi-step linear equations using inverse operations.</li> <li>I can write multi-step linear equations that model real-life situations.</li> </ul>
	1.3 Modeling Quantities	Use proportional reasoning and analyze units when solving problems.	<ul style="list-style-type: none"> <li>I can use ratios to solve real-life problems.</li> <li>I can use rates to solve real-life problems.</li> <li>I can convert units and rates.</li> </ul>
	1.4 Accuracy with Measurements	Choose an appropriate level of accuracy when calculating with measurements.	<ul style="list-style-type: none"> <li>I can choose an appropriate level of accuracy when measuring to solve real-life problems.</li> <li>I can determine where to round numbers when finding estimates.</li> </ul>
	1.5 Solving Equations with Variables on Both Sides	Write and solve equations with variables on both sides.	<ul style="list-style-type: none"> <li>I can apply properties of equality using variable terms.</li> <li>I can solve equations with variables on both sides.</li> <li>I can recognize when an equation has zero, one, or infinitely many solutions.</li> </ul>

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		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 1 continued</b>	1.6 Solving Absolute Value Equations	Write and solve equations involving absolute value.	<ul style="list-style-type: none"><li>• I can write the two linear equations related to a given absolute value equation.</li><li>• I can solve equations involving one or two absolute values.</li><li>• I can identify special solutions of absolute value equations.</li></ul>
	1.7 Rewriting Equations and Formulas	Solve literal equations for given variables.	<ul style="list-style-type: none"><li>• I can identify a literal equation.</li><li>• I can use properties of equality to rewrite literal equations.</li><li>• I can use rewritten formulas to solve problems.</li></ul>

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		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 2: Solving Linear Inequalities</b>			
<p><b><u>Chapter Learning Target</u></b> Understand solving linear inequalities.</p> <p><b><u>Chapter Success Criteria</u></b></p> <ul style="list-style-type: none"> <li>• I can solve simple and multi-step inequalities.</li> <li>• I can describe how to solve inequalities.</li> <li>• I can compare and contrast solving inequalities with solving equations.</li> <li>• I can apply techniques for solving inequalities to solve real-life applications.</li> </ul>	2.1 Writing and Graphing Inequalities	Write inequalities and represent solutions of inequalities on number lines.	<ul style="list-style-type: none"> <li>• I can write word sentences as inequalities.</li> <li>• I can determine whether a value is a solution of an inequality.</li> <li>• I can graph and interpret inequalities.</li> </ul>
	2.2 Solving Inequalities Using Addition or Subtraction	Write and solve inequalities using addition or subtraction.	<ul style="list-style-type: none"> <li>• I can apply the Addition and Subtraction Properties of Inequality to produce equivalent inequalities.</li> <li>• I can solve inequalities using addition or subtraction.</li> <li>• I can use inequalities to model real-life problems.</li> </ul>
	2.3 Solving Inequalities Using Multiplication or Division	Write and solve inequalities using multiplication or division.	<ul style="list-style-type: none"> <li>• I can apply the Multiplication and Division Properties of Inequality to produce equivalent inequalities.</li> <li>• I can solve inequalities using multiplication or division.</li> <li>• I can recognize when to reverse an inequality symbol while solving an inequality.</li> </ul>
	2.4 Solving Multi-Step Inequalities	Write and solve multi-step inequalities.	<ul style="list-style-type: none"> <li>• I can use more than one property of inequality to generate equivalent inequalities.</li> <li>• I can solve multi-step inequalities using inverse operations.</li> <li>• I can apply multi-step inequalities to solve real-life problems.</li> </ul>

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		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 2 continued</b>	2.5 Solving Compound Inequalities	Write and solve compound inequalities.	<ul style="list-style-type: none"><li>• I can write word sentences as compound inequalities.</li><li>• I can solve compound inequalities.</li><li>• I can graph solutions of compound inequalities.</li></ul>
	2.6 Solving Absolute Value Inequalities	Write and solve inequalities involving absolute value.	<ul style="list-style-type: none"><li>• I can write a compound inequality related to a given absolute value inequality.</li><li>• I can solve absolute value inequalities.</li><li>• I can use absolute value inequalities to solve real-life problems.</li></ul>

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<u>Learning Target</u>		<u>Success Criteria</u>
<b>Chapter 3: Graphing Linear Functions</b>		
<p><b><u>Chapter Learning Target</u></b> Understand graphing linear functions.</p> <p><b><u>Chapter Success Criteria</u></b></p> <ul style="list-style-type: none"> <li>• I can identify the graph of a linear function.</li> <li>• I can graph linear functions written in different forms.</li> <li>• I can describe the characteristics of a function.</li> <li>• I can explain how a transformation affects the graph of a linear function.</li> </ul>	3.1 Functions	<p>Understand the concept of a function.</p> <ul style="list-style-type: none"> <li>• I can determine whether a relation is a function.</li> <li>• I can find the domain and range of a function.</li> <li>• I can distinguish between independent and dependent variables.</li> </ul>
	3.2 Characteristics of Functions	<p>Describe characteristics of functions.</p> <ul style="list-style-type: none"> <li>• I can estimate intercepts of a graph of a function.</li> <li>• I can approximate when a function is positive, negative, increasing, or decreasing.</li> <li>• I can sketch a graph of a function from a verbal description.</li> </ul>
	3.3 Linear Functions	<p>Identify and graph linear functions.</p> <ul style="list-style-type: none"> <li>• I can identify linear functions using graphs, tables, and equations.</li> <li>• I can graph linear functions with discrete and continuous domains.</li> <li>• I can write real-life problems that correspond to discrete or continuous data.</li> </ul>
	3.4 Function Notation	<p>Understand and use function notation.</p> <ul style="list-style-type: none"> <li>• I can evaluate functions using function notation.</li> <li>• I can interpret statements that use function notation.</li> <li>• I can graph functions represented using function notation.</li> </ul>

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		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 3 continued</b>	3.5 Graphing Linear Equations in Standard Form	Graph and interpret linear equations written in standard form.	<ul style="list-style-type: none"> <li>• I can graph equations of horizontal and vertical lines.</li> <li>• I can graph linear equations written in standard form using intercepts.</li> <li>• I can solve real-life problems using linear equations in standard form.</li> </ul>
	3.6 Graphing Linear Equations in Slope-Intercept Form	Find the slope of a line and use slope-intercept form.	<ul style="list-style-type: none"> <li>• I can find the slope of a line.</li> <li>• I can use the slope-intercept form of a linear equation.</li> <li>• I can solve real-life problems using slopes and y-intercepts.</li> </ul>
	3.7 Transformations of Linear Functions	Graph transformations of linear functions.	<ul style="list-style-type: none"> <li>• I can identify a transformation of a linear graph.</li> <li>• I can graph transformations of linear functions.</li> <li>• I can explain how translations, reflections, stretches, and shrinks affect graphs of functions.</li> </ul>
	3.8 Graphing Absolute Value Functions	Graph absolute value functions.	<ul style="list-style-type: none"> <li>• I can graph absolute value functions.</li> <li>• I can find the domain and range of absolute value functions.</li> <li>• I can describe transformations of graphs of absolute value functions.</li> </ul>

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<u>Learning Target</u>		<u>Success Criteria</u>
<b>Chapter 4: Writing Linear Functions</b>		
<p><b><u>Chapter Learning Target</u></b> Understand writing linear functions.</p> <p><b><u>Chapter Success Criteria</u></b></p> <ul style="list-style-type: none"> <li>• I can determine the slope given ordered pairs, a graph, or a context.</li> <li>• I can write the equation of a line in different forms.</li> <li>• I can interpret scatter plots and analyze lines of fit.</li> <li>• I can write a function that represents an arithmetic sequence to solve a real-life problem.</li> </ul>	4.1 Writing Equations in Slope-Intercept Form	Write equations of lines in slope-intercept form.
	4.2 Writing Equations in Point-Slope Form	Write equations of lines in point-slope form.
	4.3 Writing Equations of Parallel and Perpendicular Lines	Recognize and write equations of parallel and perpendicular lines.
	4.4 Scatter Plots and Lines of Fit	Use scatter plots and lines of fit to describe relationships between data.
		<ul style="list-style-type: none"> <li>• I can find the slope and the y-intercept of a line.</li> <li>• I can use the slope and the y-intercept to write an equation of a line.</li> <li>• I can write equations in slope-intercept form to solve real-life problems.</li> </ul>
		<ul style="list-style-type: none"> <li>• I can use a point on a line and the slope to write an equation of the line.</li> <li>• I can use any two points to write an equation of a line.</li> <li>• I can write a linear function using any two function values.</li> </ul>
		<ul style="list-style-type: none"> <li>• I can identify parallel and perpendicular lines from their equations.</li> <li>• I can write equations of parallel lines.</li> <li>• I can write equations of perpendicular lines.</li> </ul>
		<ul style="list-style-type: none"> <li>• I can read and interpret scatter plots.</li> <li>• I can identify correlations between data.</li> <li>• I can write and interpret an equation of a line of fit.</li> </ul>

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<b>Chapter 4 continued</b>	4.5 Analyzing Lines of Fit	Analyze lines of fit and find lines of best fit.	<ul style="list-style-type: none"> <li>• I can use residuals to determine how well lines of fit model data.</li> <li>• I can use technology to find lines of best fit.</li> <li>• I can distinguish between correlation and causation.</li> </ul>
	4.6 Arithmetic Sequences	Understand the concept of arithmetic sequences.	<ul style="list-style-type: none"> <li>• I can write the terms of arithmetic sequences.</li> <li>• I can graph arithmetic sequences.</li> <li>• I can identify arithmetic sequences.</li> <li>• I can write arithmetic sequences as functions.</li> </ul>
	4.7 Piecewise Functions	Graph and write piecewise functions.	<ul style="list-style-type: none"> <li>• I can evaluate piecewise functions.</li> <li>• I can graph piecewise functions.</li> <li>• I can write piecewise functions.</li> </ul>



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<u>Learning Target</u>		<u>Success Criteria</u>	
<b>Chapter 5: Solving Systems of Linear Equations</b>			
<p><b><u>Chapter Learning Target</u></b> Understand solving systems of linear equations.</p> <p><b><u>Chapter Success Criteria</u></b></p> <ul style="list-style-type: none"> <li>• I can identify a system of linear equations.</li> <li>• I can describe different methods for solving systems of linear equations.</li> <li>• I can analyze systems of linear equations and decide what solution method is most efficient.</li> <li>• I can predict whether a system of linear equations has one solution, no solution, or infinitely many solutions.</li> </ul>	5.1 Solving Systems of Linear Equations by Graphing	Solve linear systems by graphing.	
	5.2 Solving Systems of Linear Equations by Substitution	Solve linear systems by substitution.	<ul style="list-style-type: none"> <li>• I can determine whether an ordered pair is a solution of a system.</li> <li>• I can graph a linear system.</li> <li>• I can approximate the solution of a linear system using a graph.</li> </ul>
	5.3 Solving Systems of Linear Equations by Elimination	Solve linear systems by elimination.	<ul style="list-style-type: none"> <li>• I can solve a system of linear equations by substitution.</li> <li>• I can solve a linear equation in two variables for either variable.</li> <li>• I can solve real-life problems using substitution.</li> </ul>
	5.4 Solving Special Systems of Linear Equations	Solve linear systems with different numbers of solutions.	<ul style="list-style-type: none"> <li>• I can add or subtract linear equations.</li> <li>• I can solve a system of linear equations by elimination.</li> <li>• I can explain why the elimination method produces a valid solution.</li> <li>• I can solve real-life problems using elimination.</li> </ul>
	5.5 Solving Equations by Graphing	Solve equations by graphing.	<ul style="list-style-type: none"> <li>• I can determine the number of solutions of a system.</li> <li>• I can solve a system of linear equations with any number of solutions.</li> </ul>
		<ul style="list-style-type: none"> <li>• I can solve a linear equation by graphing.</li> <li>• I can solve an absolute value equation by graphing.</li> <li>• I can explain why the x-coordinate of a point where <math>y = f(x)</math> and <math>y = g(x)</math> intersect is a solution of <math>f(x) = g(x)</math>.</li> </ul>	

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		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 5 continued</b>	5.6 Graphing Linear Inequalities in Two Variables	Graph linear inequalities in two variables.	<ul style="list-style-type: none"> <li>• I can determine whether an ordered pair is a solution of a linear inequality in two variables.</li> <li>• I can graph linear inequalities in two variables.</li> <li>• I can interpret solutions of a linear inequality in two variables in a real-life situation.</li> </ul>
	5.7 Systems of Linear Inequalities	Graph and write systems of linear inequalities.	<ul style="list-style-type: none"> <li>• I can determine whether an ordered pair is a solution of a system of linear inequalities.</li> <li>• I can graph systems of linear inequalities.</li> <li>• I can write systems of linear inequalities from a graph.</li> <li>• I can solve real-life problems using systems of linear inequalities.</li> </ul>

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<u>Learning Target</u>		<u>Success Criteria</u>
<b>Chapter 6: Exponential Functions and Sequences</b>		
<p><b>Chapter Learning Target</b> Understand exponential functions and sequences.</p> <p><b>Chapter Success Criteria</b></p> <ul style="list-style-type: none"> <li>• I can identify and use properties of exponents.</li> <li>• I can describe exponential functions.</li> <li>• I can analyze data, a graph, or a context to determine whether it represents exponential growth or decay.</li> <li>• I can model using an exponential function or a geometric sequence.</li> </ul>	6.1 Properties of Exponents	<p>Write equivalent expressions involving powers.</p> <ul style="list-style-type: none"> <li>• I can explain the meaning of zero and negative exponents.</li> <li>• I can evaluate and simplify expressions involving zero and negative exponents.</li> <li>• I can simplify expressions using properties of exponents.</li> </ul>
	6.2 Radicals and Rational Exponents	<p>Write and evaluate an <math>n</math>th root of a number.</p> <ul style="list-style-type: none"> <li>• I can find <math>n</math>th roots.</li> <li>• I can evaluate expressions with rational exponents.</li> <li>• I can solve real-life problems involving rational exponents.</li> </ul>
	6.3 Exponential Functions	<p>Graph and write exponential functions.</p> <ul style="list-style-type: none"> <li>• I can identify an exponential function.</li> <li>• I can evaluate and graph an exponential function.</li> <li>• I can write exponential functions.</li> <li>• I can model real-life problems using exponential functions.</li> </ul>
	6.4 Exponential Growth and Decay	<p>Write and graph exponential growth and decay functions.</p> <ul style="list-style-type: none"> <li>• I can determine whether data represent exponential growth or exponential decay.</li> <li>• I can write exponential growth functions and exponential decay functions.</li> <li>• I can solve real-life problems using exponential growth and decay functions.</li> </ul>
	6.5 Solving Exponential Equations	<p>Solve exponential equations.</p> <ul style="list-style-type: none"> <li>• I can solve exponential equations with the same base.</li> <li>• I can solve exponential equations with unlike bases.</li> <li>• I can solve exponential equations by graphing.</li> </ul>

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<b>Chapter 6 continued</b>	6.6 Geometric Sequences	Identify, extend, and graph geometric sequences.	<ul style="list-style-type: none"><li>• I can determine whether a sequence is arithmetic, geometric, or neither.</li><li>• I can write and graph the terms of geometric sequences.</li><li>• I can write geometric sequences as functions.</li></ul>
	6.7 Recursively Defined Sequences	Write terms of recursively defined sequences and write recursive rules for sequences.	<ul style="list-style-type: none"><li>• I can write terms of recursively defined sequences.</li><li>• I can write recursive rules for sequences.</li><li>• I can translate between recursive rules and explicit rules.</li></ul>

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		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 7: Polynomial Equations and Factoring</b>			
<p><b>Chapter Learning Target</b> Understand polynomial equations and factoring.</p> <p><b>Chapter Success Criteria</b></p> <ul style="list-style-type: none"> <li>• I can classify polynomials by degree and number of terms.</li> <li>• I can add, subtract, multiply, and divide polynomials.</li> <li>• I can solve polynomial equations.</li> <li>• I can factor polynomials and use factoring to solve real-life problems.</li> </ul>	7.1 Adding and Subtracting Polynomials	Add and subtract polynomials.	<ul style="list-style-type: none"> <li>• I can classify polynomials.</li> <li>• I can add and subtract polynomials.</li> <li>• I can model real-life situations using sums and differences of polynomials.</li> </ul>
	7.2 Multiplying and Dividing Polynomials	Multiply and divide polynomials.	<ul style="list-style-type: none"> <li>• I can multiply and divide polynomials by monomials.</li> <li>• I can multiply binomials using the Distributive Property.</li> <li>• I can multiply binomials using the FOIL Method.</li> <li>• I can multiply binomials and trinomials.</li> </ul>
	7.3 Special Products of Polynomials	Use patterns to find products of polynomials.	<ul style="list-style-type: none"> <li>• I can use the square of a binomial pattern.</li> <li>• I can multiply binomials using the sum and difference pattern.</li> <li>• I can solve problems using special product patterns.</li> </ul>
	7.4 Solving Polynomial Equations in Factored Form	Solve polynomial equations in factored form.	<ul style="list-style-type: none"> <li>• I can use the Zero-Product Property to solve polynomial equations in factored form.</li> <li>• I can factor polynomials using the greatest common factor.</li> <li>• I can solve polynomial equations by rewriting them in factored form.</li> </ul>
	7.5 Factoring $x^2 + bx + c$	Factor polynomials of the form $x^2 + bx + c$ .	<ul style="list-style-type: none"> <li>• I can identify the three terms of a trinomial.</li> <li>• I can factor polynomials of the form <math>x^2 + bx + c</math>.</li> <li>• I can explain how to use <math>b</math> and <math>c</math> to find binomial factors of a polynomial <math>x^2 + bx + c</math>.</li> </ul>

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		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 7 continued</b>	7.6 Factoring $ax^2 + bx + c$	Factor polynomials of the form $ax^2 + bx + c$ .	<ul style="list-style-type: none"> <li>• I can factor a polynomial using the GCF of the terms of the polynomial.</li> <li>• I can factor polynomials of the form <math>ax^2 + bx + c</math>.</li> <li>• I can explain how to use <math>a</math>, <math>b</math>, and <math>c</math> to find binomial factors of a polynomial <math>ax^2 + bx + c</math>.</li> </ul>
	7.7 Factoring Special Products	Recognize and factor special products.	<ul style="list-style-type: none"> <li>• I can factor the difference of two squares.</li> <li>• I can factor perfect square trinomials.</li> <li>• I can solve real-life problems by factoring using special product patterns.</li> </ul>
	7.8 Factoring Polynomials Completely	Factor a polynomial by grouping and recognize when a polynomial is factored completely.	<ul style="list-style-type: none"> <li>• I can factor polynomials by grouping.</li> <li>• I can factor polynomials completely.</li> <li>• I can solve real-life problems by factoring.</li> </ul>

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<u>Learning Target</u>		<u>Success Criteria</u>
<b>Chapter 8: Graphing Quadratic Functions</b>		
<p><b>Chapter Learning Target</b> Understand graphing quadratic functions.</p> <p><b>Chapter Success Criteria</b></p> <ul style="list-style-type: none"> <li>• I can identify characteristics of quadratic functions.</li> <li>• I can describe how to graph quadratic functions in different forms.</li> <li>• I can find zeros of functions using intercept form.</li> <li>• I can choose an appropriate function to model data.</li> </ul>	8.1 Graphing $f(x) = ax^2$	Graph and describe functions of the form $f(x) = ax^2$ . <ul style="list-style-type: none"> <li>• I can identify characteristics of quadratic functions and their graphs.</li> <li>• I can graph quadratic functions of the form <math>f(x) = ax^2</math>.</li> <li>• I can compare the graph of <math>f(x) = ax^2</math> to the graph of the parent quadratic function <math>f(x) = x^2</math>.</li> </ul>
	8.2 Graphing $f(x) = ax^2 + c$	Graph and describe functions of the form $f(x) = ax^2 + c$ . <ul style="list-style-type: none"> <li>• I can graph quadratic functions of the form <math>f(x) = ax^2 + c</math>.</li> <li>• I can compare the graph of <math>f(x) = ax^2 + c</math> to the graph of the parent quadratic function.</li> <li>• I can describe translations of the graph of <math>f(x) = ax^2 + c</math>.</li> <li>• I can find zeros of <math>f(x) = ax^2 + c</math>.</li> </ul>
	8.3 Graphing $f(x) = ax^2 + bx + c$	Graph and describe functions of the form $f(x) = ax^2 + bx + c$ . <ul style="list-style-type: none"> <li>• I can find the axis of symmetry and vertex of a quadratic function.</li> <li>• I can graph quadratic functions of the form <math>f(x) = ax^2 + bx + c</math>.</li> <li>• I can determine a maximum or minimum value of a quadratic function.</li> </ul>
	8.4 Graphing $f(x) = a(x - h)^2 + k$	Graph and describe functions of the form $f(x) = a(x - h)^2 + k$ . <ul style="list-style-type: none"> <li>• I can identify even and odd functions.</li> <li>• I can graph quadratic functions of the form <math>f(x) = a(x - h)^2 + k</math>.</li> <li>• I can compare the graph of <math>f(x) = a(x - h)^2 + k</math> to the graph of the parent quadratic function.</li> <li>• I can compare the graph of <math>f(x) = a(x - h)^2 + k</math> to the graph of the parent quadratic function.</li> </ul>

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<b>Chapter 8 continued</b>	8.5 Using Intercept Form	Graph and use functions in intercept form.	<ul style="list-style-type: none"><li>• I can graph quadratic functions of the form <math>f(x) = a(x - p)(x - q)</math>.</li><li>• I can find zeros of functions using intercept form.</li><li>• I can use characteristics to graph and write quadratic functions and cubic functions.</li></ul>
	8.6 Comparing Linear, Exponential, and Quadratic Functions	Compare the characteristics of linear, exponential, and quadratic functions.	<ul style="list-style-type: none"><li>• I can determine whether data can be represented by a linear, exponential, or quadratic function.</li><li>• I can write functions to model data.</li><li>• I can compare functions using average rates of change.</li></ul>



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<u>Learning Target</u>		<u>Success Criteria</u>
<b>Chapter 9: Solving Quadratic Equations</b>		
<p><b>Chapter Learning Target</b> Understand solving quadratic equations.</p> <p><b>Chapter Success Criteria</b></p> <ul style="list-style-type: none"> <li>I can simplify expressions using properties of radicals.</li> <li>I can describe different methods for solving quadratic equations.</li> <li>I can solve quadratic equations.</li> <li>I can solve nonlinear systems of equations graphically and algebraically.</li> </ul>	9.1 Properties of Radicals	<p>Use properties of radicals to write equivalent expressions.</p> <ul style="list-style-type: none"> <li>I can use properties of square roots to write equivalent expressions.</li> <li>I can use properties of cube roots to write equivalent expressions.</li> <li>I can rationalize the denominator of a fraction.</li> <li>I can perform operations with radicals.</li> </ul>
	9.2 Solving Quadratic Equations by Graphing	<p>Use graphs to solve quadratic equations and find zeros of functions.</p> <ul style="list-style-type: none"> <li>I can solve quadratic equations by graphing.</li> <li>I can use graphs to find and approximate zeros of functions.</li> <li>I can use technology to find a quadratic model for a set of data.</li> </ul>
	9.3 Solving Quadratic Equations Using Square Roots	<p>Solve quadratic equations using square roots.</p> <ul style="list-style-type: none"> <li>I can find the square roots of a number.</li> <li>I can solve quadratic equations using square roots.</li> <li>I can approximate solutions of quadratic equations.</li> </ul>
	9.4 Solving Quadratic Equations by Completing the Square	<p>Solve quadratic equations and find maximum and minimum values of quadratic functions by completing the square.</p> <ul style="list-style-type: none"> <li>I can complete the square for an expression of the form <math>x^2 + bx</math>.</li> <li>I can solve quadratic equations by completing the square.</li> <li>I can find maximum and minimum values of quadratic functions by completing the square.</li> </ul>

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<b>Chapter 9 continued</b>			
	9.5 Solving Quadratic Equations Using the Quadratic Formula	Use the Quadratic Formula and its discriminant to solve and analyze quadratic equations.	<ul style="list-style-type: none"> <li>• I can solve quadratic equations using the Quadratic Formula.</li> <li>• I can find and interpret the discriminant of an equation.</li> <li>• I can choose an efficient method for solving a quadratic equation and explain my choice of method.</li> </ul>
	9.6 Solving Nonlinear Systems of Equations	Solve nonlinear systems graphically and algebraically.	<ul style="list-style-type: none"> <li>• I can solve nonlinear systems graphically.</li> <li>• I can solve nonlinear systems algebraically.</li> <li>• I can approximate the solutions of nonlinear systems.</li> </ul>

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**Learning Targets and Success Criteria**

		<u>Learning Target</u>	<u>Success Criteria</u>
<b>Chapter 10: Radical Functions and Equations</b>			
<p><b><u>Chapter Learning Target</u></b> Understand radical functions and equations.</p> <p><b><u>Chapter Success Criteria</u></b></p> <ul style="list-style-type: none"> <li>• I can identify domains and ranges of radical functions.</li> <li>• I can graph square root and cube root functions.</li> <li>• I can solve radical equations.</li> <li>• I can find inverses of relations and functions.</li> </ul>	10.1 Graphing Square Root Functions	Graph and describe square root functions.	<ul style="list-style-type: none"> <li>• I can find the domain and range of a square root function.</li> <li>• I can graph square root functions.</li> <li>• I can graph and describe transformations of square root functions.</li> <li>• I can use square root functions to solve real-life problems.</li> </ul>
	10.2 Graphing Cube Root Functions	Graph and describe cube root functions.	<ul style="list-style-type: none"> <li>• I can graph cube root functions.</li> <li>• I can graph and describe transformations of cube root functions.</li> <li>• I can use cube root functions to solve real-life problems.</li> </ul>
	10.3 Solving Radical Equations	Solve radical equations and identify any extraneous solutions.	<ul style="list-style-type: none"> <li>• I can identify radical equations.</li> <li>• I can solve radical equations.</li> <li>• I can identify extraneous solutions of radical equations.</li> <li>• I can solve real-life problems involving radical equations.</li> </ul>
	10.4 Inverse of a Function	Understand the relationship between inverse functions.	<ul style="list-style-type: none"> <li>• I can explain what inverse functions are.</li> <li>• I can find inverses of functions algebraically.</li> <li>• I can determine if the inverse of a function is also a function.</li> </ul>

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<u>Learning Target</u>		<u>Success Criteria</u>
<b>Chapter 11: Data Analysis and Displays</b>		
<p><b>Chapter Learning Target</b> Understand data.</p> <p><b>Chapter Success Criteria</b></p> <ul style="list-style-type: none"> <li>• I can interpret data displays.</li> <li>• I can describe the shapes of data distributions.</li> <li>• I can represent data in different ways.</li> <li>• I can analyze data.</li> </ul>	11.1 Measures of Center and Variation	Find measures of center and variation of a data set. <ul style="list-style-type: none"> <li>• I can find and compare the measures of center of a data set.</li> <li>• I can find measures of variation of a data set.</li> <li>• I can describe effects of data transformations.</li> </ul>
	11.2 Box-and-Whisker Plots	Make and interpret box-and-whisker plots for data sets. <ul style="list-style-type: none"> <li>• I can make box-and-whisker plots to represent data sets.</li> <li>• I can interpret box-and-whisker plots.</li> <li>• I can use box-and-whisker plots to compare data sets.</li> <li>• I can explain how to identify outliers in a data set.</li> </ul>
	11.3 Shapes of Distributions	Describe and compare shapes of distributions. <ul style="list-style-type: none"> <li>• I can describe the shape of a distribution.</li> <li>• I can determine which measures of center and variation best represent a data set.</li> <li>• I can compare data sets.</li> </ul>
	11.4 Two-Way Tables	Use two-way tables to represent data. <ul style="list-style-type: none"> <li>• I can find and interpret marginal frequencies.</li> <li>• I can make two-way tables.</li> <li>• I can find and interpret relative frequencies and conditional relative frequencies.</li> <li>• I can recognize associations and trends in data using two-way tables.</li> </ul>
	11.5 Choosing a Data Display	Use appropriate data displays to represent situations. <ul style="list-style-type: none"> <li>• I can classify data as qualitative or quantitative.</li> <li>• I can create an appropriate data display and explain the choice of display.</li> <li>• I can identify misleading data displays.</li> </ul>