

Alignment of Destination Math Courseware  
with  
**California Mathematics Content Standards**  
**ALGEBRA**

**Mathematics Content Standard**

|  | <b>Mastering Skills &amp; Concepts: Course III</b>   | <b>Mastering Skills &amp; Concepts: Course IV</b>  | <b>Mastering Skills &amp; Concepts: Course V</b>   | <b>Mastering Algebra I: Course 1</b>  | <b>Mastering Algebra I: Course 2</b>   |
|--|--|--|--|---|--|
| <p><b>1.0</b> Students identify and use the arithmetic properties of subsets of integers and rational, irrational, and real numbers, including closure properties for the four basic arithmetic operations where applicable.</p> | <p><b>Module: Operations with Numbers</b><br/>Unit: Addition and Subtraction of Whole Numbers<br/><u>Session 1</u>: Whole Number Sums<br/><u>Session 2</u>: Differences Between Large Numbers</p> <p><b>Module: Operations with Numbers</b><br/>Unit: The Integers<br/><u>Session 1</u>: Integer Sums<br/><u>Session 2</u>: Differences Between Integers</p> <p><b>Module: Operations with Numbers</b><br/>Unit: Multiplication and Division of Whole Numbers<br/><u>Session 1</u>: Two-digit Multipliers<br/><u>Session 2</u>: Introduction to Long Division<br/><u>Session 3</u>: Two-digit Divisors</p> | <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Adding and Subtracting Signed Numbers<br/><u>Session 1</u>: Exploring the Number Line and Absolute Value<br/><u>Session 2</u>: Adding with Absolute Value<br/><u>Session 3</u>: Subtracting with Absolute Value</p> <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Multiplying and Dividing Signed Numbers<br/><u>Session 1</u>: Finding Products of Signed Numbers<br/><u>Session 2</u>: Representing the Multiplication of Signed Numbers<br/><u>Session 3</u>: Finding Quotients Using Reciprocals</p> <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Order of Operations<br/><u>Session 1</u>: Simplifying Expressions<br/><u>Session 2</u>: Introducing the Distributive Property<br/><u>Session 3</u>: Using Grouping Symbols</p> | <p><b>Module: Essentials of Algebra</b><br/>Unit: Evaluating an Algebraic Expression<br/><u>Session 2</u>: Combining Like Terms<br/><u>Session 3</u>: Evaluating Expressions Using Substitution</p> <p><b>Module: Radicals and Exponents</b><br/>Unit: Introduction to Radicals and Pythagorean Theorem<br/><u>Session 3</u>: Defining Irrational Numbers</p> <p>(missing associative, commutative, identity property, and property of zero)<br/>←</p> | <p><b>Module: The Language of Algebra</b><br/>Unit: Variables, Expressions, and Equations<br/><u>Session 2</u>: Applying Properties of Real Numbers</p> | <p><b>Module: The Real Number System</b><br/>Unit: Rational and Irrational Numbers<br/><u>Session 1</u>: Defining the Real Numbers<br/><u>Session 2</u>: Working with Radicals</p> |

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|---|--|--|--|---|--|
| <p><b>1.1</b> Students use properties of numbers to demonstrate whether assertions are true or false.</p> | <p><b>Module: Operations with Numbers</b><br/>Unit: Addition and Subtraction of Whole Numbers<br/><u>Session 1</u>: Whole Number Sums<br/><u>Session 2</u>: Differences Between Large Numbers</p> <p><b>Module: Operations with Numbers</b><br/>Unit: The Integers<br/><u>Session 1</u>: Integer Sums<br/><u>Session 2</u>: Differences Between Integers</p> <p><b>Module: Operations with Numbers</b><br/>Unit: Multiplication and Division of Whole Numbers<br/><u>Session 1</u>: Two-digit Multipliers<br/><u>Session 2</u>: Introduction to Long Division<br/><u>Session 3</u>: Two-digit Divisors</p> | <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Adding and Subtracting Signed Numbers<br/><u>Session 1</u>: Exploring the Number Line and Absolute Value<br/><u>Session 2</u>: Adding with Absolute Value<br/><u>Session 3</u>: Subtracting with Absolute Value</p> <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Multiplying and Dividing Signed Numbers<br/><u>Session 1</u>: Finding Products of Signed Numbers<br/><u>Session 2</u>: Representing the Multiplication of Signed Numbers<br/><u>Session 3</u>: Finding Quotients Using Reciprocals</p> <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Order of Operations<br/><u>Session 1</u>: Simplifying Expressions<br/><u>Session 2</u>: Introducing the Distributive Property<br/><u>Session 3</u>: Using Grouping Symbols</p> |  | <p><b>Module: The Language of Algebra</b><br/>Unit: Variables, Expressions, and Equations<br/><u>Session 2</u>: Applying Properties of Real Numbers</p> | <p><b>Module: The Real Number System</b><br/>Unit: Rational and Irrational Numbers<br/><u>Session 1</u>: Defining the Real Numbers<br/><u>Session 2</u>: Working with Radicals</p> |

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|---|--|--|---|---|---|
| <p><b>2.0</b> Students understand and use such operations as taking the opposite, finding the reciprocal, taking a root, and raising to a fractional power. They understand and use the rules of exponents.</p> | <p><b>Module: Fractions</b><br/>Unit: Multiplication and Division<br/><u>Session 2</u>: Quotients and Remainders<br/><br/>(no fractional powers)</p> | <p><b>Module: Fractions</b><br/>Unit: Dividing Fractions<br/><u>Session 1</u>: Estimating Quotients of Fractions<br/><u>Session 2</u>: Using Multiplicative Inverses<br/><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Adding and Subtracting Signed Numbers<br/><u>Session 3</u>: Subtracting with Absolute Value<br/><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Multiplying and Dividing Signed Numbers<br/><u>Session 3</u>: Finding Quotients Using Reciprocals<br/><br/>(no fractional powers)</p> | <p><b>Module: Essentials of Algebra</b><br/>Unit: Simple Equations<br/><u>Session 3</u>: Solving Simple Equations<br/><b>Module: Radicals and Exponents</b><br/>Unit: Introduction to Radicals and Pythagorean Theorem<br/><u>Session 1</u>: Exploring the Pythagorean Theorem<br/><u>Session 2</u>: Investigating Squares and Square Roots<br/><br/>(no fractional powers)</p> | <p><b>Module: The Language of Algebra</b><br/>Unit: Linear Equations in One Variable<br/><u>Session 1</u>: Applying Inverse Operations<br/><br/>(no fractional powers)</p>  | <p><b>Module: The Real Number System</b><br/>Unit: Rational and Irrational Numbers<br/><u>Session 1</u>: Defining the Real Numbers<br/><u>Session 2</u>: Working with Radicals<br/><u>Session 3</u>: The Square Root Function<br/><b>Module: Powers and Polynomials</b><br/>Unit: Polynomial Arithmetic<br/><u>Session 1</u>: Working with Powers<br/><br/>(no fractional powers)</p> |
| <p><b>3.0</b> Students solve equations and inequalities involving absolute values.</p>  |  |  |   | <p><b>Module: The Language of Algebra</b><br/>Unit: Linear Equations in One Variable<br/><u>Session 3</u>: Solving Absolute Value Equations<br/><b>Module: Linear Inequalities</b><br/>Unit: Inequalities in One Variable<br/><u>Session 3</u>: Solving Absolute Value Inequalities</p> |   |

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| <p><b>4.0</b> Students simplify expressions before solving linear equations and inequalities in one variable, such as</p> $3(2x - 5) + 4(x - 2) = 12$                                      |   |  | <p><b>Module: Essentials of Algebra:</b><br/>Unit: Evaluating an Algebraic Expression<br/><u>Session 2:</u> Combining Like Terms</p> <p><b>Module: Essentials of Algebra</b><br/>Unit: Simple Equations<br/><u>Session 2:</u> Simplifying Algebraic Expressions<br/><u>Session 3:</u> Solving Simple Equations</p> | <p><b>Module: The Language of Algebra</b><br/>Unit: Variables, Expressions, and Equations<br/><u>Session 2:</u> Applying Properties of Real Numbers<br/><u>Session 3:</u> Evaluating and Simplifying Expressions</p> <p><b>Module: The Language of Algebra</b><br/>Unit: Linear Equations in One Variable<br/><u>Session 1:</u> Applying Inverse Operations<br/><u>Session 2:</u> Transforming Equations Using Multiple Operations</p> |                               |
| <p><b>5.0</b> Students solve multi-step problems, including word problems, involving linear equations and linear inequalities in one variable and provide justification for each step.</p> |   |  | <p><b>Module: Essentials of Algebra</b><br/>Unit: Simple Equations<br/><u>Session 3:</u> Solving Simple Equations</p> <p><b>Module: Essentials of Algebra</b><br/>Unit: Variables on Both Sides of the Equation<br/><u>Session 2:</u> Simplifying Both Sides of an Equation</p>                                    | <p><b>Module: The Language of Algebra</b><br/>Unit: Linear Equations in One Variable<br/><u>Session 1:</u> Applying Inverse Operations<br/><u>Session 2:</u> Transforming Equations Using Multiple Operations</p>  |                               |

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|--|---|--|---------------------------------------|--|-------------------------------|
| <p><b>5.0</b> Students solve multi-step problems, including word problems, involving linear equations and linear inequalities in one variable and provide justification for each step.</p> <p style="text-align: center;">(Continued)</p>                                  |   |  |                                       | <p><b>Module: Linear Inequalities</b><br/>Unit: Inequalities in One Variable<br/><u>Session 1</u>: Applying Inverse Operations<br/><u>Session 2</u>: Graphing Solutions on a Number Line</p>   |                               |
| <p><b>6.0</b> Students graph a linear equation and compute the x- and y-intercepts (e.g., graph <math>2x + 6y = 4</math>). They are also able to sketch the region defined by linear inequality (e.g., they sketch the region defined by <math>2x + 6y &lt; 4</math>).</p> |   |  |                                       | <p><b>Module: Linear Functions &amp; Equations</b><br/>Unit: The Rectangular Coordinate Plane<br/><u>Session 2</u>: Defining Slope<br/><u>Session 3</u>: Finding x- and y-Intercepts<br/><b>Module: Linear Functions &amp; Equations</b><br/>Unit: Introduction to Functions<br/><u>Session 1</u>: Exploring the Slope-Intercept Equation of a Line<br/><u>Session 2</u>: Exploring the Point-Slope Equation of a Line<br/><u>Session 3</u>: Relations and Functions</p> |                               |

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|---|--|---|--|--|--------------------------------------|
| <p><b>6.0</b> Students graph a linear equation and compute the <math>x</math>- and <math>y</math>-intercepts (e.g., graph <math>2x + 6y = 4</math>). They are also able to sketch the region defined by linear inequality (e.g., they sketch the region defined by <math>2x + 6y &lt; 4</math>).</p> <p style="text-align: center;">(Continued)</p> |  |   |  | <p><b>Module: Linear Inequalities</b><br/>Unit: Inequalities in Two Variables<br/><u>Session 1</u>: Graphing Solutions on a Rectangular Coordinate Plane<br/><u>Session 2</u>: Solving systems by Graphing</p> <p><b>The Graphing Tool</b></p>                                     |                                      |
| <p><b>7.0</b> Students verify that a point lies on a line, given an equation of the line. Students are able to derive linear equations by using the point-slope formula.</p>  |  |   |  | <p><b>Module: Linear Functions &amp; Equations</b><br/>Unit: Introduction to Functions<br/><u>Session 1</u>: Exploring the Slope-Intercept Equation of a Line<br/><u>Session 2</u>: Exploring the Point-Slope Equation of a Line<br/><u>Session 3</u>: Relations and Functions</p> |                                      |
| <p><b>8.0</b> Students understand the concepts of parallel lines and perpendicular lines and how those slopes are related. Students are able to find the equation of a line perpendicular to a given line that passes through a given point.</p>  |  |   |  | <p><b>Module: Systems of Linear Equations</b><br/>Unit: Graphic Solutions of Linear Systems<br/><u>Session 2</u>: Graphing Parallel &amp; Perpendicular Lines</p>  |                                      |

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|--|---|--|---------------------------------------|---|--|
| <p><b>9.0</b> Students solve a system of two linear equations in two variables.</p>  |   |  |                                       | <p><b>Module: Systems of Linear Equations</b><br/>Unit: Graphic Solutions of Linear Systems<br/><u>Session 1</u>: Finding the Point of Intersection</p> <p><b>Module: Systems of Linear Equations</b><br/>Unit: Algebraic Solutions of Linear Systems<br/><u>Session 1</u>: Using Substitution to Eliminate a Variable<br/><u>Session 2</u>: Using Addition or Subtraction to Eliminate a Variable</p> <p><b>Module: Linear Inequalities</b><br/>Unit: Inequalities in Two Variables<br/><u>Session 1</u>: Graphing Solutions on a Rectangular Coordinate Plane<br/><u>Session 2</u>: Solving Systems by Graphing</p> |  |
| <p><b>10.0</b> Students add, subtract, multiply, and divide monomials and polynomials. Students solve multi-step problems, including word problems, by using these techniques.</p> |   |  |                                       | <p style="text-align: center;">—————▶<br/>(Monomial work is minimal.)</p>   | <p><b>Module: Powers and Polynomials</b><br/>Unit: Polynomial Arithmetic<br/><u>Session 1</u>: Working with Powers<br/><u>Session 2</u>: Adding and Subtracting Polynomial Expressions<br/><u>Session 3</u>: Multiplying Polynomials</p> |

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|---|--|---|--|--------------------------------------|--|
| <p><b>10.0</b> Students add, subtract, multiply, and divide monomials and polynomials. Students solve multi-step problems, including word problems, by using these techniques.<br/>(Continued)</p>  |  |   |  |                                      | <p><b>Module: Algebraic Expressions &amp; Functions</b><br/>Unit: Rational Expressions, Equations, and Functions<br/><u>Session 1</u>: Rational Operations</p>   |
| <p><b>11.0</b> Students apply basic factoring techniques to second- and simple third-degree polynomials. These techniques include finding a common factor for all terms in a polynomial, recognizing the difference of two squares, and recognizing perfect squares of binomials.</p> |  |   |  |                                      | <p><b>Module: Powers and Polynomials</b><br/>Unit: Factoring Polynomials<br/><u>Session 1</u>: Finding Common Factors<br/><u>Session 2</u>: Factoring Quadratic Trinomials<br/><u>Session 3</u>: Special Cases</p> |
| <p><b>12.0</b> Students simplify fractions with polynomials in the numerator and denominator by factoring both and reducing them to the lowest terms.</p>   |  |   |  |                                      | <p><b>Module: Algebraic Expressions &amp; Functions</b><br/>Unit: Rational Expressions, Equations, and Functions<br/><u>Session 1</u>: Rational Operations</p>   |

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|---|--|---|--|--------------------------------------|---|
| <b>13.0</b> Students add, subtract, multiply, and divide rational expressions and functions. Students solve both computationally and conceptually challenging problems by using these techniques. |  |   |  |                                      | <b>Module: Algebraic Expressions &amp; Functions</b><br>Unit: Rational Expressions, Equations, and Functions<br><u>Session 1:</u> Rational Operations<br><u>Session 2:</u> Rational Functions<br><u>Session 3:</u> Rational Equations   |
| <b>14.0</b> Students solve a quadratic equation by factoring or completing the square.  |  |   |  |                                      | <b>Module: Quadratic Functions &amp; Equations</b><br>Unit: Solving Quadratic Equations Using Algebra<br><u>Session 1:</u> Factoring and the Zero Product Theorem<br><u>Session 2:</u> The Square Root Method and Completing the Square |
| <b>15.0</b> Students apply algebraic techniques to solve rate problems, work problems, and percent mixture problems.  |  |   |  |                                      | <b>Module: Algebraic Expressions &amp; Functions</b><br>Unit: Rational Expressions, Equations, and Functions<br><u>Session 3:</u> Rational Equations<br><br>(no percent mixture problems)   |

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|---|--|---|--|---|---|
| <b>16.0</b> Students understand the concepts of a relation and a function, determine whether a given relation defines a function, and give pertinent information about given relations and functions. |  |   |  | <b>Module: Linear Functions &amp; Equations</b><br>Unit: Introduction to Functions<br><u>Session 3</u> : Relations and Functions  |   |
| <b>17.0</b> Students determine the domain of independent variables and the range of dependent variables defined by a graph, a set of ordered pairs, or a symbolic expression.                         |  |   |  | <b>Module: Linear Functions &amp; Equations</b><br>Unit: The Rectangular Coordinate Plane<br><u>Session 1</u> : Graphing Ordered Pairs<br><b>Module: Linear Functions &amp; Equations</b><br>Unit: Introduction to Functions<br><u>Session 3</u> : Relations and Functions<br><b>Module: Systems of Linear Functions</b><br>Unit: Graphic Solutions of Linear Systems<br><u>Session 1</u> : Finding the Point of Intersection | <b>Module: The Real Number System</b><br>Unit: Rational and Irrational Numbers<br><u>Session 3</u> : The Square Root Function<br><b>Module: Quadratic Functions &amp; Equations</b><br>Unit: Graphing Quadratic Functions and Equations<br><u>Session 1</u> : Graphing Parabolas<br><b>Module: Algebraic Expressions &amp; Functions</b><br>Unit: Radical Equations and Functions<br><u>Session 2</u> : The Inverse of the Square Root Function |

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|--|--|---|--|---|--|
| <p><b>17.0</b> Students determine the domain of independent variables and the range of dependent variables defined by a graph, a set of ordered pairs, or a symbolic expression.<br/>(Continued)</p> |  |   |  |   | <p><b>Module: Algebraic Expressions &amp; Functions</b><br/>Unit: Rational Expressions, Equations, and Functions<br/><u>Session 1:</u> Rational Operations<br/><u>Session 2:</u> Rational Functions</p>                          |
| <p><b>18.0</b> Students determine whether a relation defined by a graph, a set of ordered pairs, or a symbolic expression is a function and justify the conclusion.</p>                              |  |   |  | <p><b>Module: Linear Functions &amp; Equations</b><br/>Unit: Introduction to Functions<br/><u>Session 3:</u> Relations and Functions<br/><b>Systems of Linear Equations</b><br/>Unit: Graphic Solutions of Linear Systems<br/><u>Session 2:</u> Graphing Parallel &amp; Perpendicular Lines</p> |  |
| <p><b>19.0</b> Students know the quadratic formula and are familiar with its proof by completing the square.</p>   |  |   |  |   | <p><b>Module: Quadratic Functions &amp; Equations</b><br/>Unit: Solving Quadratic Equations Using Algebra<br/><u>Session 2:</u> The Square Root Method and Completing the Square<br/><u>Session 3:</u> The Quadratic Formula</p> |

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|--|--|---|--|--------------------------------------|---|
| <b>20.0</b> Students use the quadratic formula to find the roots of a second-degree polynomial and to solve quadratic equations. |  |   |  |                                      | <b>Module: Quadratic Functions &amp; Equations</b><br>Unit: Solving Quadratic Equations Using Algebra<br><u>Session 3</u> : The Quadratic Formula   |
| <b>21.0</b> Students graph quadratic functions and know that their roots are the x-intercepts.                                   |  |   |  |                                      | <b>Module: Quadratic Functions &amp; Equations</b><br>Unit: Graphing Quadratic Functions and Equations<br><u>Session 1</u> : Graphing Parabolas<br><u>Session 2</u> : Analyzing Properties of Parabolas<br><u>Session 3</u> : Solving Quadratic Equations by Graphing<br><b>Module: Quadratic Functions &amp; Equations</b><br>Unit: Solving Quadratic Equations Using Algebra<br><u>Session 1</u> : Factoring and the Zero Product Theorem |

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| <b>22.0</b> Students use the quadratic formula or factoring techniques or both to determine whether the graph of a quadratic function will intersect the x-axis in zero, one, or two points. |   |  |                                       |                               | <b>Module: Quadratic Functions &amp; Equations</b><br>Unit: Solving Quadratic Equations Using Algebra<br><u>Session 1</u> : Factoring and the Zero Product Theorem<br><u>Session 2</u> : The Square Root Method and Completing the Square<br><u>Session 3</u> : The Quadratic Formula |
| <b>23.0</b> Students apply quadratic equations to physical problems, such as the motion of an object under the force of gravity.   |   |  |                                       |                               | <b>Module: Quadratic Functions &amp; Equations</b><br>Unit: Graphing Quadratic Functions and Equations<br><u>Session 2</u> : Analyzing Properties of Parabolas<br><u>Session 3</u> : Solving Quadratic Equations by Graphing  |
| <b>24.0</b> Students use and know simple aspects of a logical argument.  |   |  |                                       |                               |   |
| <b>24.1</b> Students explain the difference between inductive and deductive reasoning and identify and provide examples of each.   |   |  |                                       |                               |   |

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|--|--|---|---|---|---|
| <b>24.2</b> Students identify the hypothesis and conclusion in logical deduction.  |  |   |   |   |   |
| <b>24.3</b> Students use counterexamples to show that an assertion is false and recognize that a single counterexample is sufficient to refute an assertion.         |  |   |   |   |   |
| <b>25.0</b> Students use properties of the number system to judge the validity of results, to justify each step of a procedure, and to prove or disprove statements. | <p><b>Module: Operations with Numbers</b><br/>Unit: Addition and Subtraction of Whole Numbers<br/><u>Session 1</u>: Whole Number Sums</p> <p><b>Module: Operations with Numbers</b><br/>Unit: The Integers<br/><u>Session 2</u>: Differences Between Integers</p> <p><b>Module: Operations with Numbers</b><br/>Unit: Multiplication and Division of Whole Numbers<br/><u>Session 1</u>: Two-digit Multipliers</p> | <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Order of Operations<br/><u>Session 1</u>: Simplifying Expressions<br/><u>Session 2</u>: Introducing the Distributive Property<br/><u>Session 3</u>: Using Grouping Symbols</p> | <p><b>Module: Essentials of Algebra</b><br/>Unit: Algebra Fundamentals<br/><u>Session 2</u>: Identifying Components of Algebraic Expressions<br/><u>Session 3</u>: Replacing Variables in a Formula</p> <p><b>Module: Essentials of Algebra</b><br/>Unit: Evaluating an Algebraic Expression<br/><u>Session 2</u>: Combining Like Terms<br/><u>Session 3</u>: Evaluating Expressions Using Substitution</p> | <p><b>Module: The Language of Algebra</b><br/>Unit: Variables, Expressions, and Equations<br/><u>Session 2</u>: Applying Properties of Real Numbers<br/><u>Session 3</u>: Evaluating and Simplifying Expressions</p> <p><b>Module: The Language of Algebra</b><br/>Unit: Linear Equations in One Variable<br/><u>Session 1</u>: Applying Inverse Operations</p> | <p><b>Module: The Real Number System</b><br/>Unit: Rational and Irrational Numbers<br/><u>Session 1</u>: Defining the Real Numbers<br/><u>Session 2</u>: Working with Radicals</p> <p><b>Module: Quadratic Functions &amp; Equations</b><br/>Unit: Solving Quadratic Equations Using Algebra<br/><u>Session 1</u>: Factoring and the Zero Product Theorem</p> |

Alignment of Destination Math Courseware  
with  
**California Mathematics Content Standards**  
**ALGEBRA**

**Mathematics Content Standard**

|  | <b>Mastering Skills &amp; Concepts: Course III</b>  | <b>Mastering Skills &amp; Concepts: Course IV</b>   | <b>Mastering Skills &amp; Concepts: Course V</b>  | <b>Mastering Algebra I: Course 1</b>   | <b>Mastering Algebra I: Course 2</b>   |
|--|---|---|---|--|--|
| <p><b>25.0</b> Students use properties of the number system to judge the validity of results, to justify each step of a procedure, and to prove or disprove statements.</p> <p style="text-align: center;">(Continued)</p> |   |   | <p><b>Module: Essentials of Algebra</b><br/>Unit: Simple Equations<br/><u>Session 1</u>: Using Variables to Express Relationships<br/><u>Session 2</u>: Simplifying Algebraic Expressions<br/><u>Session 3</u>: Solving Simple Equations</p> <p><b>Module: Essentials of Algebra</b><br/>Unit: Variables on Both Sides of the Equation<br/><u>Session 2</u>: Simplifying Both Sides of an Equation<br/><u>Session 3</u>: Checking the Solution to an Equation</p> |  |  |
| <p><b>25.1</b> Students use properties of numbers to construct simple, valid arguments (direct and indirect) for, or formulate counterexamples to, claimed assertions.</p>   |   |   |   |  |  |
| <p><b>25.2</b> Students judge the validity of an argument according to whether the properties of the real number system and the order of operations have been applied correctly at each step.</p>                          | <p><b>Module: Operations with Numbers</b><br/>Unit: Addition and Subtraction of Whole Numbers<br/><u>Session 1</u>: Whole Number Sums</p> | <p><b>Module: Integers &amp; Order of Operations</b><br/>Unit: Order of Operations<br/><u>Session 1</u>: Simplifying Expressions<br/><u>Session 2</u>: Introducing the Distributive Property<br/><u>Session 3</u>: Using Grouping Symbols</p> | <p><b>Module: Essentials of Algebra</b><br/>Unit: Algebra Fundamentals<br/><u>Session 2</u>: Identifying Components of Algebraic Expressions<br/><u>Session 3</u>: Replacing Variables in a Formula</p>   | <p><b>Module: The Language of Algebra</b><br/>Unit: Variables, Expressions, and Equations<br/><u>Session 2</u>: Applying Properties of Real Numbers<br/><u>Session 3</u>: Evaluating and Simplifying Expressions</p> | <p><b>Module: The Real Number System</b><br/>Unit: Rational and Irrational Numbers<br/><u>Session 1</u>: Defining the Real Numbers<br/><u>Session 2</u>: Working with Radicals</p> |

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|  | <b>Mastering Skills &amp; Concepts: Course III</b>  | <b>Mastering Skills &amp; Concepts: Course IV</b> | <b>Mastering Skills &amp; Concepts: Course V</b>  | <b>Mastering Algebra I: Course 1</b>  | <b>Mastering Algebra I: Course 2</b>  |
|--|---|---|---|---|---|
| <p><b>25.2</b> Students judge the validity of an argument according to whether the properties of the real number system and the order of operations have been applied correctly at each step.<br/>(Continued)</p>              | <p><b>Module: Operations with Numbers</b><br/>Unit: The Integers<br/><u>Session 2</u>: Differences Between Integers<br/><b>Module: Operations with Numbers</b><br/>Unit: Multiplication and Division of Whole Numbers<br/><u>Session 1</u>: Two-digit Multipliers</p> |   | <p><b>Module: Essentials of Algebra</b><br/>Unit: Evaluating an Algebraic Expression<br/><u>Session 2</u>: Combining Like Terms<br/><u>Session 3</u>: Evaluating Expressions Using Substitution<br/><b>Module: Essentials of Algebra</b><br/>Unit: Simple Equations<br/><u>Session 1</u>: Using Variables to Express Relationships<br/><u>Session 2</u>: Simplifying Algebraic Expressions<br/><u>Session 3</u>: Solving Simple Equations</p> | <p><b>Module: The Language of Algebra</b><br/>Unit: Linear Equations in One Variable<br/><u>Session 1</u>: Applying Inverse Operations</p>  |   |
| <p><b>25.3</b> Given a specific algebraic statement involving linear, quadratic, or absolute value expressions or equations or inequalities, students determine whether the statement is true sometimes, always, or never.</p> |   |   | <p><b>Module: Essentials of Algebra</b><br/>Unit: Algebra Fundamentals<br/><u>Session 2</u>: Identifying Components of Algebraic Expressions<br/><u>Session 3</u>: Replacing Variables in a Formula<br/><b>Module: Essentials of Algebra</b><br/>Unit: Evaluating an Algebraic Expression<br/><u>Session 2</u>: Combining Like Terms<br/><u>Session 3</u>: Evaluating Expressions Using Substitution</p>                                      | <p><b>Module: The Language of Algebra</b><br/>Unit: Linear Equations in One Variable<br/><u>Session 1</u>: Applying Inverse Operations<br/><u>Session 3</u>: Solving Absolute Value Equations<br/><b>Module: Linear Functions &amp; Equations</b><br/>Unit: Introduction to Functions<br/><u>Session 3</u>: Relations and Functions</p> | <p><b>Module: The Real Number System</b><br/>Unit: Rational and Irrational Numbers<br/><u>Session 3</u>: The Square Root Function</p> |

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|   | <b>Mastering Skills &amp; Concepts: Course III</b> | <b>Mastering Skills &amp; Concepts: Course IV</b> | <b>Mastering Skills &amp; Concepts: Course V</b>  | <b>Mastering Algebra I: Course 1</b>   | <b>Mastering Algebra I: Course 2</b>  |
|---|--|---|---|--|---|
| <p><b>25.3</b> Given a specific algebraic statement involving linear, quadratic, or absolute value expressions or equations or inequalities, students determine whether the statement is true sometimes, always, or never.</p> <p>(Continued)</p> |  |   | <p><b>Module: Essentials of Algebra</b><br/>Unit: Simple Equations<br/><u>Session 1</u>: Using Variables to Express Relationships<br/><u>Session 2</u>: Simplifying Algebraic Expressions<br/><u>Session 3</u>: Solving Simple Equations</p> <p><b>Module: Essentials of Algebra</b><br/>Unit: Variables on Both Sides of the Equation<br/><u>Session 3</u>: Checking the Solution to an Equation</p> <p><b>Module: Essentials of Algebra</b><br/>Unit: Solving Literal Equations<br/><u>Session 3</u>: Substituting Values and Solving an Equation</p> | <p><b>Module: Systems of Linear Equations</b><br/>Unit: Graphic Solutions of Linear Systems<br/><u>Session 1</u>: Finding the Point of Intersection<br/><u>Session 2</u>: Graphing Parallel and Perpendicular Lines</p> <p><b>Module: Linear Inequalities</b><br/>Unit: Inequalities in One Variable<br/><u>Session 1</u>: Applying Inverse Operations<br/><u>Session 2</u>: Graphing Solutions on a Number Line<br/><u>Session 3</u>: Solving Absolute Value Inequalities</p> <p><b>Module: Linear Inequalities</b><br/>Unit: Inequalities in Two Variables<br/><u>Session 2</u>: Solving Systems by Graphing</p> | <p><b>Module: Quadratic Functions &amp; Equations</b><br/>Unit: Solving Quadratic Equations Using Algebra<br/><u>Session 1</u>: Factoring and the Zero Product Theorem<br/><u>Session 2</u>: The Square Root Method and Completing the Square<br/><u>Session 3</u>: The Quadratic Formula</p> <p><b>Module: Algebraic Expressions &amp; Functions</b><br/>Unit: Radical Equations and Functions<br/><u>Session 1</u>: Solving Radical Equations</p> <p><b>Module: Algebraic Expressions &amp; Functions</b><br/>Unit: Rational Expressions, Equations, and Functions<br/><u>Session 3</u>: Rational Equations</p> |