Alignment of Destination Math Courseware
With
Ohio Academic Content Standards for Mathematics
GRADE SEVEN

Number, Number Sense and Operations

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1 Demonstrate an understanding of place value using powers of 10 and write large numbers in scientific notation.		**Module: Decimals** Unit: Adding and Subtracting Decimals Session 2: Regrouping with Whole Numbers **Module: Decimals** Unit: Multiplying Decimals Session 1: Multiplying Decimals by Powers of 10 **Module: Decimals** Unit: Dividing Decimals Session 3: Dividing by Powers of 10	**Module: Radicals & Exponents** Unit: Introduction to Scientific Notation Session 1: Writing Numbers Using Scientific Notation Session 2: Comparing Numbers in Scientific Notation Session 3: Writing Numbers between 0 & 1 in Scientific Notation		
2 Explain the meaning of exponents that are negative or 0.			**Module: Radicals & Exponents** Unit: Introduction to Scientific Notation Session 3: Writing Numbers between 0 & 1 in Scientific Notation		
3 Describe differences between rational and irrational numbers; e.g., use technology to show that some numbers (rational) can be expressed as terminating or repeating decimals and others (irrational) as non-terminating and non-repeating decimals.		**Module: Decimals** Unit: Essentials of Decimals Session 3: Exploring Repeating and Terminating Decimals	**Module: Radicals & Exponents** Unit: Introduction to Radicals & Pythagorean Theorem Session 3: Defining Irrational Numbers		

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	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
4 Use order of operations and properties to simplify numerical expressions involving integers, fractions and decimals.		**Module: Integers and Order of Operations** Unit: Order of Operations Session 1: Simplifying Expressions Session 2: Introducing the Distributive Property Session 3: Using Symbols		**Module: The Language of Algebra** Unit: Variables, Expressions, and Equations Session 2: Applying Properties of Real Numbers Session 3: Evaluating and Simplifying Expressions	
5 Explain the meaning and effect of adding, subtracting, multiplying and dividing integers; e.g., how adding two integers can result in a lesser value.	**Module: Operations with Numbers** Unit: The Integers Session 1: Integer Sums Session 2: Differences Between Integers	**Module: Integers and Order of Operations** Unit: Adding and Subtracting Signed Numbers Session 1: Exploring the Number Line and Absolute Value Session 2: Adding with Absolute Value Session 3: Subtracting with Absolute Value **Module: Integers and Order of Operations** Unit: Multiplying and Dividing Signed Numbers Session 1: Finding Products of Signed Numbers			

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	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
5 Explain the meaning and effect of adding, subtracting, multiplying and dividing integers; e.g., how adding two integers can result in a lesser value. (continued)		(continued) Session 2: Representing the Multiplication of Signed Numbers Session 3: Finding Quotients Using Reciprocals			
6 Simplify numerical expressions involving integers and use integers to solve real-life problems.	**Module: Operations with Numbers** Unit: The Integers Session 1: Integer Sums Session 2: Differences Between Integers	**Module: Integers and Order of Operations** Unit: Adding and Subtracting Signed Numbers Session 1: Exploring the Number Line and Absolute Value Session 2: Adding with Absolute Value Session 3: Subtracting with Absolute Value **Module: Integers and Order of Operations** Unit: Multiplying and Dividing Signed Numbers Session 1: Finding Products of Signed Numbers Session 2: Representing the Multiplication of Signed Numbers	**Module: Essentials of Algebra** Unit: Evaluating an Algebraic Expression Session 2: Combining Like Terms		

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	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
6 Simplify numerical expressions involving integers and use integers to solve real-life problems. (continued)		(continued) Session 3: Finding Quotients Using Reciprocals			
7 Solve problems using the appropriate form of a rational number (fraction, decimal or percent).	**Module: Fractions** Unit: Addition and Subtraction Session 1: Sums Involving Like Denominators Session 2: Differences Involving Like Denominators Session 3: Working with Unlike Denominators **Module: Fractions** Unit: Multiplication and Division Session 1: Finding Products Session 2: Quotients and Remainders	**Module: Fractions** Unit: Multiplying Fractions Session 1: Finding Products of Fractions, Whole Numbers, and Mixed Numbers Session 2: Using the GCF in Finding Products Session 3: Representing Multiplication **Module: Fractions** Unit: Dividing Fractions Session 1: Estimating Quotients of Fractions Session 2: Using Multiplicative Inverses			

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	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
7 Solve problems using the appropriate form of a rational number (fraction, decimal or percent). (continued)	**Module: Decimals** Unit: Introduction Session 3: Ratios, Decimals, and Percents **Module: Decimals** Unit: Addition and Subtraction Session 1: Adding Decimals Session 2: Subtracting Decimals **Module: Decimals** Unit: Multiplication and Division Session 1: Multiplying Decimals Session 2: Dividing Decimals by Whole Numbers	(continued) Session 3: Solving Missing Value Problems when Dividing Fractions **Module: Fractions** Unit: Adding Fractions Session 1: Adding with Like Denominators Session 2: Adding with Unlike Denominators Session 3: Solving Missing Value Problems when Adding Fractions **Module: Fractions** Unit: Subtracting Fractions Session 1: Subtracting with Like Denominators Session 2: Subtracting with Unlike Denominators Session 3: Solving Missing Value Problems when Subtracting Fractions **Module: Decimals** Unit: Adding and Subtracting Decimals Session 1: Using Place Value Grids Session 2: Regrouping with Whole Numbers			

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Number, Number Sense and Operations

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
7 Solve problems using the appropriate form of a rational number (fraction, decimal or percent). (continued)		(continued) Session 3: Regrouping to Hundredths **Module: Decimals** Unit: Multiplying Decimals Session 1: Multiplying Decimals by Powers of 10 Session 2: Calculating Products Session 3: Finding the Volume of a Prism **Module: Decimals** Unit: Dividing Decimals Session 1: Dividing Decimals by Whole Numbers Session 2: Estimating and Finding Quotients Session 3: Dividing by Powers of 10 **Module: Percents** Unit: Finding Percents of Quantities Session 1: Finding Percents of a Whole Session 2: Expressing Ratios as Percents Session 3: Calculating the Whole from a Part and a Percent			

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Number, Number Sense and Operations

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
7 Solve problems using the appropriate form of a rational number (fraction, decimal or percent). (continued)		**Module: Percents** Unit: Increasing and Decreasing Percents Session 1: Calculating Percent Increases Session 2: Calculating Percent Decreases Session 3: Calculating Simple Interest			
8 Develop and analyze algorithms for computing with percents and integers, and demonstrate fluency in their use.	**Module: Fractions** Unit: Addition and Subtraction Session 1: Sums Involving Like Denominators Session 2: Differences Involving Like Denominators Session 3: Working with Unlike Denominators **Module: Fractions** Unit: Multiplication and Division Session 1: Finding Products Session 2: Quotients and Remainders **Module: Decimals** Unit: Introduction Session 3: Ratios, Decimals, and Percents	**Module: Fractions** Unit: Multiplying Fractions Session 1: Finding Products of Fractions, Whole Numbers, and Mixed Numbers Session 2: Using the GCF in Finding Products Session 3: Representing Multiplication **Module: Fractions** Unit: Dividing Fractions Session 1: Estimating Quotients of Fractions Session 2: Using Multiplicative Inverses Session 3: Solving Missing Value Problems when Dividing Fractions			

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	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
8 Develop and analyze algorithms for computing with percents and integers, and demonstrate fluency in their use. (continued)	**Module: Decimals** Unit: Addition and Subtraction Session 1: Adding Decimals Session 2: Subtracting Decimals **Module: Decimals** Unit: Multiplication and Division Session 1: Multiplying Decimals Session 2: Dividing Decimals by Whole Numbers	**Module: Fractions** Unit: Adding Fractions Session 1: Adding with Like Denominators Session 2: Adding with Unlike Denominators Session 3: Solving Missing Value Problems when Adding Fractions **Module: Fractions** Unit: Subtracting Fractions Session 1: Subtracting with Like Denominators Session 2: Subtracting with Unlike Denominators Session 3: Solving Missing Value Problems when Subtracting Fractions **Module: Decimals** Unit: Adding and Subtracting Decimals Session 1: Using Place Value Grids Session 2: Regrouping with Whole Numbers Session 3: Regrouping to Hundredths			

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Number, Number Sense and Operations

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
8 Develop and analyze algorithms for computing with percents and integers, and demonstrate fluency in their use. (continued)		**Module: Decimals** Unit: Multiplying Decimals Session 1: Multiplying Decimals by Powers of 10 Session 2: Calculating Products Session 3: Finding the Volume of a Prism **Module: Decimals** Unit: Dividing Decimals Session 1: Dividing Decimals by Whole Numbers Session 2: Estimating and Finding Quotients Session 3: Dividing by Powers of 10 **Module: Percents** Unit: Finding Percents of Quantities Session 1: Finding Percents of a Whole Session 2: Expressing Ratios as Percents Session 3: Calculating the Whole from a Part and a Percent			

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Number, Number Sense and Operations

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
8 Develop and analyze algorithms for computing with percents and integers, and demonstrate fluency in their use. (continued)		**Module: Percents** Unit: Increasing and Decreasing Percents Session 1: Calculating Percent Increases Session 2: Calculating Percent Decreases Session 3: Calculating Simple Interest			
9 Represent and solve problem situations that can be modeled by and solved using concepts of absolute value, exponents and square roots (for perfect squares).		**Module: Integers and Order of Operations** Unit: Adding and Subtracting Signed Numbers Session 1: Exploring the Number Line and Absolute Value Session 2: Adding with Absolute Value Session 3: Subtracting with Absolute Value	**Module: Radicals & Exponents** Unit: Introduction to Radicals & Pythagorean Theorem Session 1: Exploring the Pythagorean Theorem Session 2: Investigating Squares & Square Roots	**Module: The Language of Algebra** Unit: Linear Equations in One Variable Session 3: Solving Absolute Value Equations	

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Measurement

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1 Select appropriate units for measuring derived measurements, e.g., miles per hour, revolutions per minute.		**This concept is thoroughly integrated throughout this course.**	**This concept is thoroughly integrated throughout this course.**	**This concept is thoroughly integrated throughout this course.**	
2 Convert units of area and volume within the same measurement system using proportional reasoning and a reference table when appropriate; e.g., square feet to square yards, cubic meters to cubic centimeters.					
3 Estimate a measurement to a greater degree of precision than the tool provides.					
4 Solve problems involving proportional relationships and scale factors; e.g., scale models that require unit conversions within the same measurement system.			**Module: Ratio & Proportion** Unit: Proportion Session 1: Defining a Proportion Session 2: Solving for a Variable in a Proportion Session 3: Applying the Means/Extremes Property **Module: Ratio & Proportion** Unit: Direct & Inverse Variation Session 1: Exploring & Solving Direct Variation Problems		

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Measurement

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
5 Analyze problem situations involving measurement concepts, select appropriate strategies, and use an organized approach to solve narrative and increasingly complex problems.		**These concepts are thoroughly integrated throughout this course.**	**These concepts are thoroughly integrated throughout this course.**	**These concepts are thoroughly integrated throughout this course.**	
6 Use strategies to develop formulas for finding area of trapezoids and volume of cylinders and prisms.	**Module: Geometry** Unit: Measurement Session 4: Parallelograms and Trapezoids	**Module: Decimals** Unit: Multiplying Decimals Session 2: Calculating Products Session 3: Finding the Volume of a Prism	**Module: Fundamentals of Geometry** Unit: Volume and Surface Area Session 1: Calculating the Volume of a Right Triangular Prism Session 3: Calculating the Volume and Surface Area of a Right Cylinder		
7 Develop strategies to find the area of composite shapes using the areas of triangles, parallelograms, circles and sectors.	**Module: Geometry** Unit: Measurement Session 3: Triangles Session 4: Parallelograms and Trapezoids		**Module: Fundamentals of Geometry** Unit: Triangles Session 2: Exploring the Area of a Triangle **Module: Fundamentals of Statistics** Unit: Interpreting and Constructing Graphs Session 3: Interpreting Pie Charts		

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Measurement

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
8 Understand the difference between surface area and volume and demonstrate that two objects may have the same surface area, but different volumes or may have the same volume, but different surface areas.			**Module: Fundamentals of Geometry** Unit: Volume and Surface Area Session 1: Calculating the Volume of a Right Triangular Prism Session 2: Calculating the surface Area of a Right Triangular Prism Session 3: Calculating the Volume and Surface Area of a Right Cylinder		
9 Describe what happens to the surface area and volume of a three-dimensional object when the measurements of the object are changed; e.g., length of sides are doubled.			**Module: Fundamentals of Geometry** Unit: Volume and Surface Area Session 1: Calculating the Volume of a Right Triangular Prism Session 2: Calculating the surface Area of a Right Triangular Prism Session 3: Calculating the Volume and Surface Area of a Right Cylinder		

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Geometry and Spatial Sense

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1 Use proportional reasoning to describe and express relationships between parts and attributes of similar and congruent figures.			**Module: Ratio & Proportion** Unit: Proportion Session 1: Defining a Proportion Session 2: Solving for a Variable in a Proportion Session 3: Applying the Means/Extremes Property **Module: Ratio and Proportion** Unit: Similar Polygons Session 1: Defining Similarity Session 2: Identifying Equivalent Ratios Session 3: Setting Up and Solving Proportions in Similar Polygons		
2 Determine sufficient (not necessarily minimal) properties that define a specific two-dimensional figure or three-dimensional object. For example: a. Determine when one set of figures is a subset of another; e.g., all squares are rectangles. b. Develop a set of properties that eliminates all but the desired figure; e.g., only squares are quadrilaterals with all sides congruent and all angles congruent.	**Module: Geometry** Unit: Measurement Session 2: Rectangles and Squares Session 3: Triangles Session 4: Parallelograms and Trapezoids				

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Geometry and Spatial Sense

	Mastering Skills & Concepts: Course III	**Mastering Skills & Concepts: Course IV**	**Mastering Skills & Concepts: Course V**	**Mastering Algebra I: Course 1**	**Mastering Algebra I: Course 2**
3 Use and demonstrate understanding of the properties of triangles. For example: a. Use Pythagorean Theorem to solve problems involving right triangles. b. Use triangle angle sum relationships to solve problems.	**Module: Geometry** Unit: Measurement Session 3: Triangles		**Module: Radicals and Exponents** Unit: Introduction to Radicals and Pythagorean Theorem Session 1: Exploring the Pythagorean Theorem Session 3: Defining Irrational Numbers		
4 Determine necessary conditions for congruence of triangles.					
5 Apply properties of congruent or similar triangles to solve problems involving missing lengths and angle measures.					
6 Determine and use scale factors for similar figures to solve problems using proportional reasoning.			**Module: Ratio & Proportion** Unit: Proportion Session 1: Defining a Proportion Session 2: Solving for a Variable in a Proportion Session 3: Applying the Means/Extremes Property		

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Geometry and Spatial Sense

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
6 Determine and use scale factors for similar figures to solve problems using proportional reasoning. (continued)			**Module: Ratio and Proportion** Unit: Similar Polygons Session 1: Defining Similarity Session 2: Identifying Equivalent Ratios Session 3: Setting Up and Solving Proportions in Similar Polygons		
7 Identify the line and rotation symmetries of two-dimensional figures to solve problems.	**Module: Geometry** Unit: Coordinate Geometry and Algebra Session 2: Symmetry and Transformations				
8 Perform translations, reflections, rotations and dilations of two-dimensional figures using a variety of methods (paper folding, tracing, graph paper).	**Module: Geometry** Unit: Coordinate Geometry and Algebra Session 2: Symmetry and Transformations				
9 Draw representations of three-dimensional geometric objects from different views.			**Module: Fundamentals of Geometry** Unit: Volume and Surface Area Session 2: Calculating the Surface Area of a Right Triangular Prism		

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1 Represent and analyze patterns, rules and functions with words, tables, graphs and simple variable expressions.	**Module: Data Analysis and Probability** Unit: Modeling and Displaying Events Session 1: Displaying and Analyzing Data		**Module: Essentials of Algebra** Unit: Algebra Fundamentals Session 1: Introducing Variables Session 3: Replacing Variables in a Formula **Module: Essentials of Algebra** Unit: Simple Equations Session 1: Using Variables to Express Relationships **Module: Fundamentals of Statistics** Unit: Interpreting and Constructing Graphs Session 1: Exploring Line Graphs Session 2: Exploring Bar Graphs Session 3: Interpreting Pie Charts **The Graphing Tool**	**Module: The Language of Algebra** Unit: Variables, Expressions, and Equations Session 1: Translating Words into Expressions **Module: Linear Functions & Equations** Unit: The Rectangular Coordinate Plane Session 2: Defining Slope **The Graphing Tool**	

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2 Generalize patterns by describing in words how to find the next term.					
3 Recognize and explain when numerical patterns are linear or nonlinear progressions; e.g., 1, 3, 5, 7… is linear and 1, 3, 4, 8, 16… is nonlinear.					
4 Create visual representations of equation-solving processes that model the use of inverse operations.				**Module: The Language of Algebra** Unit: Linear Equations in One Variable Session 1: Applying Inverse Operations **Module: Linear Inequalities** Unit: Inequalities in One Variable Session 1: Applying Inverse Operations	

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
5 Represent linear equations by plotting points in the coordinate plane.	**Module: Geometry** Unit: Coordinate Geometry and Algebra Session 1: The Coordinate Plane			**Module: Linear Functions & Equations** Unit: The Rectangular Coordinate Plane Session 1: Graphing Ordered Pairs **Module: Linear Functions & Equations** Unit: Introduction to Functions Session 1: Exploring the Slope-Intercept Equation of a Line Session 2: Exploring the Point-Slope Equation of a Line **Module: Systems of Linear Equations** Unit: Graphic Solutions of Linear Systems Session 2: Graphing Parallel & Perpendicular Lines **The Graphing Tool**	

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
6 Represent inequalities on a number line or a coordinate plane.				**Module: Linear Inequalities** Unit: Inequalities in One Variable Session 2: Graphing Solutions on a Number Line **Module: Linear Inequalities** Unit: Inequalities in Two Variables Session 1: Graphing Solutions on a Rectangular Coordinate Plane	
7 Justify that two forms of an algebraic expression are equivalent, and recognize when an expression is simplified; e.g., $4m = m + m + m + m$ or $a \cdot 5 + 4 = 5a + 4$		**Module: Integers & Order of Operations** Unit: Order of Operations Session 1: Simplifying Expressions Session 2: Introducing the Distributive Property Session 3: Using Grouping Symbols	**Module: Essentials of Algebra** Unit: Evaluating an Algebraic Expression Session 2: Combining Like Terms **Module: Essentials of Algebra** Unit: Simple Equations Session 2: Simplifying Algebraic Expressions	**Module: The Language of Algebra** Unit: Variables, Expressions, and Equations Session 2: Applying Properties of Real Numbers Session 3: Evaluating and Simplifying Expressions	

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
8 Use formulas in problem-solving situations.		**Module: Percents** Unit: Finding Percents of Quantities Session 1: Finding Percents of a Whole **Module: Percents** Unit: Increasing and Decreasing Percents Session 1: Calculating Percent Increases Session 2: Calculating Percent Decreases Session 3: Calculating Simple Interest	**Module: Essentials of Algebra** Unit: Algebra Fundamentals Session 3: Replacing Variables in a Formula **Module: Essentials of Algebra** Unit: Evaluating an Algebraic Expression Session 1: Representing the Dimensions and Area of a Rectangle **Module: Essentials of Algebra** Unit: Simple Equations Session 1: Using Variables to Express Relationships **Module: Essentials of Algebra** Unit: Solving Literal Equations Session 1: Identifying the Variables in a Given Formula Session 2: Rewriting a Formula in Terms of a Different Variable Session 3: Substituting Values and Solving an Equation		

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	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
8 Use formulas in problem-solving situations. (continued)			**Module: Fundamentals of Geometry** Unit: Volume and Surface Area Session 1: Calculating the Volume of a Right Triangular Prism Session 2: Calculating the surface Area of a Right Triangular Prism Session 3: Calculating the Volume and Surface Area of a Right Cylinder **Module: Radicals and Exponents** Unit: Introduction to Radicals and Pythagorean Theorem Session 1: Exploring the Pythagorean Theorem **Module: Ratio and Proportion** Unit: Direct and Inverse Variation Session 1: Exploring and Solving Direct Variation Problems Session 3: Solving Inverse Variation Problems		

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
8 Use formulas in problem-solving situations. (continued)			**Module: Fundamentals of Statistics** Unit: The Mean, Median, and Mode Session 3: Calculating the Mean, Median, and Mode **Module: Fundamentals of Probability** Unit: Simple Probability Session 1: Defining and Expressing Probability **Module: Fundamentals of Probability** Unit: Probability of Combined Events Session 1: Calculating the Probability of Independent Events Session 3: Calculating the Probability of Mutually Exclusive Events		

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
9 Recognize a variety of uses for variables; e.g., placeholder for an unknown quantity in an equation, generalization for a pattern, formula.			**Module: Essentials of Algebra** Unit: Algebra Fundamentals Session 1: Introducing Variables Session 2: Identifying Components of Algebraic Expressions Session 3: Replacing Variables in a Formula **Module: Essentials of Algebra** Unit: Evaluating an Algebraic Expression Session 1: Representing the Dimensions and Area of a Rectangle Session 2: Combining Like Terms **Module: Essentials of Algebra** Unit: Simple Equations Session 1: Using Variables to Express Relationships **Module: Essentials of Algebra** Unit: Variables on Both Sides of the Equation Session 1: Writing Equations	**Module: The Language of Algebra** Unit: Variables, Expressions, and Equations Session 1: Translating Words into Expressions Session 2: Applying Properties of Real Numbers **Module: Linear Functions & Equations** Unit: Introduction to Functions Session 1: Exploring the Slope-Intercept Equation of a Line Session 2: Exploring the Point-Slope Equation of a Line Session 3: Relations and Functions **Module: Systems of Linear Equations** Unit: Graphic Solutions of Linear Systems Session 1: Finding the Point of Intersection	

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
9 Recognize a variety of uses for variables; e.g., placeholder for an unknown quantity in an equation, generalization for a pattern, formula. (continued)			**Module: Essentials of Algebra** Unit: Solving Literal Equations Session 1: Identifying the Variables in a Given Formula Session 2: Rewriting a Formula in Terms of a Different Variable **Module: Ratio and Proportion** Unit: Proportion Session 1: Defining a Proportion Session 2: Solving for a Variable in a Proportion **Module: Ratio and Proportion** Unit: Direct and Inverse Variation Session 1: Exploring and Solving Direct Variation Problems Session 2: Exploring Inverse Variation Session 3: Solving Inverse Variation Problems	**Module: Linear Inequalities** Unit: Inequalities in One Variable Session 2: Graphing Solutions on a Number Line Session 3: Solving Absolute Value Inequalities **Module: Linear Inequalities** Unit: Inequalities in Two Variables Session 2: Solving Systems by Graphing **Module: Quadratic Functions & Equations** Unit: Graphing Quadratic Functions and Equations Session 1: Graphing Parabolas Session 2: Analyzing Properties of Parabolas	

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
9 Recognize a variety of uses for variables; e.g., placeholder for an unknown quantity in an equation, generalization for a pattern, formula. (continued)			**Module: Ratio and Proportion** Unit: Similar Polygons Session 3: Setting Up and Solving Proportions in Similar Polygons		
10 Analyze linear and simple nonlinear relationships to explain how a change in one variable results in the change of another.			**Module: Essentials of Algebra** Unit: Solving Literal Equations Session 2: Rewriting a Formula in Terms of a Different Variable Session 3: Substituting Values and Solving an Equation **Module: Ratio & Proportion** Unit: Direct & Inverse Variation Session 1: Exploring & Solving Direct Variation Problems Session 2: Exploring Inverse Variation Session 3: Solving Inverse Variation Problems		

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Patterns, Functions and Algebra

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
10 Analyze linear and simple nonlinear relationships to explain how a change in one variable results in the change of another. (continued)			**Module: Ratio & Proportion** Unit: Similar Polygons Session 3: Setting Up & Solving Proportions in Similar Polygons		
11 Use graphing calculators or computers to analyze change; e.g., distance-time relationships.			**The Graphing Tool**	**The Graphing Tool**	

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Data Analysis and Probability

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1 Read, create and interpret box-and-whisker plots, stem-and-leaf plots, and other types of graphs, when appropriate.			**Module: Fundamentals of Statistics** Unit: Interpreting and Constructing Graphs Session 1: Exploring Line Graphs Session 2: Exploring Bar Graphs Session 3: Interpreting Pie Charts **Module: Fundamentals of Statistics** Unit: Frequency Distribution and Histograms Session 3: Exploring Cumulative Frequency Graphs		**Module: Describing Data** Unit: Graphical Displays Session 1: Stem-and-Leaf Plots and Box Plots Session 2: Scatter Plots and Linear Best-Fit Graphs
2 Analyze how decisions about graphing affect the graphical representation; e.g., scale, size of classes in a histogram, number of categories in a circle graph.			**This concept is thoroughly integrated throughout the graphing problems in this course.** **The Graphing Tool**	**This concept is thoroughly integrated throughout the graphing problems in this course.** **The Graphing Tool**	

Alignment of Destination Math Courseware
With
Ohio Academic Content Standards for Mathematics
GRADE SEVEN

Data Analysis and Probability

	Mastering Skills & Concepts: Course III	Mastering Skills & Concepts: Course IV	Mastering Skills & Concepts: Course V	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
3 Analyze a set of data by using and comparing combinations of measures of center (mean, mode, median) and measures of spread (range, quartile, interquartile range), and describe how the inclusion or exclusion of outliers affects those measures.			**Module: Fundamentals of Statistics** Unit: The Mean, Median, and Mode Session 1: Defining the Mean and Median Session 2: Defining the Mode Session 3: Calculating the Mean, Median, and Mode		**Module: Describing Data** Unit: Graphical Displays Session 1: Stem-and-Leaf Plots and Box Plots
4 Construct opposing arguments based on analysis of the same data, using different graphical representations.					
5 Compare data from two or more samples to determine how sample selection can influence results.					

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6 Identify misuses of statistical data in articles, advertisements, and other media.					
7 Compute probabilities of compound events; e.g., multiple coin tosses or multiple rolls of number cubes, using such methods as organized lists, tree diagrams and area models.			**Module: Fundamentals of Probability** Unit: Probability of Combined Events Session 1: Calculating the Probability of Independent Events Session 2: Determining the Sample Space of an Experiment Session 3: Calculating the Probability of Mutually Exclusive Events		
8 Make predictions based on theoretical probabilities, design and conduct an experiment to test the predictions, compare actual results to predicted results, and explain differences.					