

Alignment of Destination Math Courseware
with
California Mathematics Content Standards
GRADE 4

Number 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
<p>1.0 Students understand the place value of whole numbers and decimals to two decimal places and how whole numbers and decimals relate to simple fractions. Students use the concepts of negative numbers:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>1.1 Read and write whole numbers in the millions.</p>	<p>Module: Numbers and Number Sense Unit: Large and Small Numbers <u>Session 1</u>: Whole Numbers to One Million</p>				
<p>1.2 Order and compare whole numbers and decimals to two decimal places.</p>	<p>Module: Numbers and Number Sense Unit: Large and Small Numbers <u>Session 2</u>: Ordering and Rounding Whole Numbers Module: Decimals Unit: Introduction <u>Session 1</u>: Tenths, Hundredths, and Thousandths <u>Session 2</u>: Ordering and Rounding</p>	<p>Module: Decimals Unit: Essentials of Decimals <u>Session 1</u>: Investigating Decimal Place Values</p>			

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1.3 Round whole numbers through the millions to the nearest ten, hundred, thousand, ten thousand, or hundred thousand.	Module: Numbers and Number Sense Unit: Large and Small Numbers <u>Session 2</u> : Ordering and Rounding Whole Numbers				
1.4 Decide when a rounded solution is called for and explain why such a solution may be appropriate.	Module: Numbers and Number Sense Unit: Large and Small Numbers <u>Session 2</u> : Ordering and Rounding Whole Numbers	Module: Decimals Unit: Adding and Subtracting Decimals <u>Session 1</u> : Using Place Value Grids Module: Integers & Order of Operations Unit: Adding and Subtracting Signed Numbers <u>Session 2</u> : Adding with Absolute Value			
1.5 Explain different interpretations of fractions, for example, parts of a whole, parts of a set, and division of whole numbers by whole numbers; explain equivalents of fractions (see Standard 4.0)	Module: Fractions Unit: Proper and Improper Fractions <u>Session 1</u> : Proper Fractions <u>Session 2</u> : Improper Fractions <u>Session 3</u> : Equivalent Fractions	Module: Fractions Unit: Essentials of Fractions <u>Session 1</u> : Recognizing a Fraction <u>Session 2</u> : Exploring Proper and Improper Fractions <u>Session 3</u> : Working with Mixed Numbers			

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1.6 Write tenths and hundredths in decimal and fraction notations and know the fraction and decimal equivalents for halves and fourths (e.g., $\frac{1}{2} = 0.5$ or $.50$; $\frac{7}{4} = 1 \frac{3}{4} = 1.75$).	Module: Decimals Unit: Introduction <u>Session 1</u> : Tenths, Hundredths, and Thousandths	Module: Decimals Unit: Essentials of Decimals <u>Session 1</u> : Investigating Decimal Place Values			
1.7 Write the fraction represented by a drawing of parts of a figure; represent a given fraction by using drawings; and relate a fraction to a simple decimal on a number line.	Module: Fractions Unit: Proper and Improper Fractions <u>Session 3</u> : Equivalent Fractions Module: Decimals Unit: Introduction <u>Session 3</u> : Ratios, Decimals, and Percents				
1.8 Use concepts of negative numbers (e.g., on a number line, in counting, in temperature, in “owing”).	Module: Numbers and Number Sense Unit: Large and Small Numbers <u>Session 3</u> : Negative Whole Numbers				
1.9 Identify on a number line the relative position of positive fractions, positive mixed numbers, and positive decimals to two decimal places.	Module: Fractions Unit: Proper and Improper Fractions <u>Session 1</u> : Proper Fractions <u>Session 2</u> : Improper Fractions Module: Decimals Unit: Introduction <u>Session 1</u> : Tenths, Hundredths, and Thousandths The Graphing Tool				

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<p>2.0 Students extend their use and understanding of whole numbers to the addition and subtraction of simple decimals:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>2.1 Estimate and compute the sum or difference of whole numbers and positive decimals to two places.</p>	<p>Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers <u>Session 1</u>: Whole Number Sums <u>Session 2</u>: Differences Between Large Numbers</p> <p>Module: Decimals Unit: Addition and Subtraction <u>Session 1</u>: Adding Decimals <u>Session 2</u>: Subtracting Decimals</p>	<p>Module: Decimals Unit: Adding and Subtracting Decimals <u>Session 1</u>: Using Place Value Grids <u>Session 2</u>: Regrouping with Whole Numbers <u>Session 3</u>: Regrouping to Hundredths</p>			
<p>2.2 Round two-place decimals to one decimal or the nearest whole number and judge the reasonableness of the rounded answer.</p>	<p>Module: Decimals Unit: Introduction <u>Session 2</u>: Ordering and Rounding</p>	<p>Module: Decimals Unit: Adding and Subtracting Decimals <u>Session 1</u>: Using Place Value Grids</p>			

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<p>3.0 Students solve problems involving addition, subtraction, multiplication, and division of whole numbers and understand the relationships among the operations:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>3.1 Demonstrate an understanding of, and the ability to use, standard algorithms for the addition and subtraction of multi-digit numbers.</p>	<p>Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers <u>Session 1</u>: Whole Number Sums <u>Session 2</u>: Differences Between Large Numbers</p>				
<p>3.2 Demonstrate an understanding of, and the ability to use, standard algorithms for multiplying a multi-digit number by a two-digit number and for dividing a multi-digit number by a one-digit number; use relationships between them to simplify computations and to check results.</p>	<p>Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers <u>Session 1</u>: Two-digit Multipliers <u>Session 2</u>: Introduction to Long Division</p>				

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3.3 Solve problems involving multiplication of multi-digit numbers by two-digit numbers.	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers <u>Session 1</u> : Two-digit Multipliers				
3.4 Solve problems involving division of multi-digit numbers by one-digit numbers.	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers <u>Session 2</u> : Introduction to Long Division				

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<p>4.0 Students know how to factor small whole numbers: SEE BELOW</p>					
<p>4.1 Understand that many whole numbers break down in different ways (e.g., $12 = 4 \times 3 = 2 \times 6 = 2 \times 2 \times 3$).</p>	<p>Module: Numbers and Number Sense Unit: Numbers as Factors <u>Session 1</u>: Finding Factors</p>				
<p>4.2 Know that numbers such as 2, 3, 5, 7, and 11 do not have any factors except 1 and themselves and that such numbers are called prime numbers.</p>	<p>Module: Numbers and Number Sense Unit: Numbers as Factors <u>Session 2</u>: Prime and Composite Numbers</p>				

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Algebra and Functions

	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
<p>1.0 Students use and interpret variables, mathematical symbols, and properties to write and simplify expressions and sentences:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>1.1 Use letters, boxes, or other symbols to stand for any number in simple expressions or equations (e.g., demonstrate an understanding and the use of the concept of a variable).</p>			<p>Module: Essentials of Algebra Unit: Algebra Fundamentals <u>Session 1</u>: Introducing Variables</p>		
<p>1.2 Interpret and evaluate mathematical expressions that now use parentheses.</p>		<p>Module: Integers & Order of Operations Unit: Order of Operations <u>Session 1</u>: Simplifying Expressions</p>			

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Algebra and Functions

	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
1.3 Use parentheses to indicate which operation to perform first when writing expressions containing more than two terms and different operations.		Module: Integers & Order of Operations Unit: Order of Operations <u>Session 2</u> : Introducing the Distributive Property <u>Session 3</u> : Using Grouping Symbols	Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression <u>Session 2</u> : Combining Like Terms		
1.4 Use and interpret formulas (e.g., area = length x width or $A = lw$) to answer questions about quantities and their relationships.		Module: Integers & Order of Operations Unit: Order of Operations <u>Session 2</u> : Introducing the Distributive Property	Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression <u>Session 1</u> : Representing the Dimensions and Area of a Rectangle		
1.5 Understand that an equation such as $y = 3x + 5$ is a prescription for determining a second number when a first number is given.			Module: Essentials of Algebra Unit: Algebra Fundamentals <u>Session 3</u> : Replacing variables in a Formula Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression <u>Session 3</u> : Evaluating Expressions Using Substitution		

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Algebra and Functions

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2.0 Students know how to manipulate equations:					
2.1 Know and understand that equals added to equals are equal.					
2.2 Know and understand that equals multiplied by equals are equal.					

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Measurement and Geometry

	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
<p>1.0 Students understand perimeter and area: SEE BELOW</p>					
<p>1.1 Measure the area of rectangular shapes by using appropriate units, such as square centimeter (cm^2), square meter (m^2), square kilometer (km^2), square inch (in^2), square yard (yd^2), or square mile (mi^2).</p>	<p>Module: Geometry Unit: Measurement <u>Session 2: Rectangles and Squares</u></p>				
<p>1.2 Recognize that rectangles that have the same area can have different perimeters.</p>	<p>Module: Geometry Unit: Measurement <u>Session 2: Rectangles and Squares</u></p>				

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Measurement and Geometry

	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
1.3 Understand that rectangles that have the same perimeter can have different areas.	Module: Geometry Unit: Measurement <u>Session 2:</u> Rectangles and Squares				
1.4 Understand and use formulas to solve problems involving perimeters and areas of rectangles and squares. Use those formulas to find the areas of more complex figures by dividing the figures into basic shapes.	Module: Geometry Unit: Measurement <u>Session 4:</u> Parallelograms and Trapezoids				

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Measurement and Geometry

	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
<p>2.0 Students use two-dimensional coordinate grids to represent points and graph lines and simple figures</p> <p style="text-align: center;">SEE BELOW</p>					
<p>2.1 Draw the points corresponding to linear relationships on graph paper (e.g., draw 10 points on the graph of the equation $y = 3x$ and connect them by using a straight line.</p>	The Graphing Tool				
<p>2.2 Understand that the length of a horizontal line segment equals the difference of the x-coordinates.</p>	<p>Module: Geometry Unit: Coordinate Geometry and Algebra <u>Session 1</u>: The Coordinate Plane</p>				
<p>2.3 Understand that the length of a vertical line segment equals the difference of the y-coordinates.</p>	<p>Module: Geometry Unit: Coordinate Geometry and Algebra <u>Session 1</u>: The Coordinate Plane</p>				

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Measurement and Geometry

	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
<p>3.0 Students demonstrate an understanding of plane and solid geometric objects and use this knowledge to show relationships and solve problems:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>3.1 Identify lines that are parallel and perpendicular.</p>	<p>Module: Geometry Unit: Measurement <u>Session 2</u>: Rectangles and Squares</p>		<p>Module: Fundamentals of Geometry Unit: Geometry Fundamentals <u>Session 1</u>: Naming and Measuring Angles</p>		
<p>3.2 Identify the radius and diameter of a circle.</p>	<p>Module: Geometry Unit: Coordinate Geometry and Algebra <u>Session 2</u>: Symmetry and Transformations</p>	<p>Module: Decimals Unit: Essentials of Decimals <u>Session 2</u>: Rounding Decimals</p>			
<p>3.3 Identify congruent figures.</p>					

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Measurement and Geometry

	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
3.4 Identify figures that have bilateral and rotational symmetry.	Module: Geometry Unit: Coordinate Geometry and Algebra <u>Session 2</u> : Symmetry and Transformations				
3.5 Know the definitions of a right angle, an acute angle, and an obtuse angle. Understand that 90° , 180° , 270° , and 360° are associated, respectively, with \rightarrow , \leftarrow , \curvearrowright , and full turns.	Module: Geometry Unit: Measurement <u>Session 1</u> : Lines, Angles and Circles		Module: Fundamentals of Geometry Unit: Geometry Fundamentals <u>Session 1</u> : Naming and Measuring Angles <u>Session 2</u> : Defining Complementary and Supplementary Angles		
3.6 Visualize, describe, and made models of geometric solids (e.g., prisms, pyramids) in terms of the number and shape of faces, edges, and vertices; interpret two-dimensional representations of three-dimensional objects; and draw patterns (of faces) for a solid that, when cut and folded, will make a model of the solid.					

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Measurement and Geometry

	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
3.7 Know the definitions of different triangles (e.g., equilateral, isosceles, scalene) and identify their attributes.	Module: Geometry Unit: Measurement <u>Session 3</u> : Triangles		Module: Fundamentals of Geometry Unit: Triangles <u>Session 1</u> : Classifying Triangles by Sides		
3.8 Know the definition of different quadrilaterals (e.g., rhombus, square, rectangle, parallelogram, trapezoid).	Module: Geometry Unit: Measurement <u>Session 2</u> : Rectangles and Squares <u>Session 4</u> : Parallelograms and Trapezoids				

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Statistics, 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
<p>1.0 Students organize, represent, and interpret numerical and categorical data and clearly communicate their findings:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>1.1 Formulate survey questions; systematically collect and represent data on a number line; and coordinate graphs, tables, and charts.</p>	<p>Module: Data Analysis and Probability Unit: Modeling and Displaying Events <u>Session 1</u>: Displaying and Analyzing Data</p>		<p>Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs <u>Session 1</u>: Exploring Line Graphs <u>Session 2</u>: Exploring Bar Graphs <u>Session 3</u>: Interpreting Pie Charts</p>		
<p>1.2 Identify the mode(s) for sets of categorical data and the mode(s), median, and any apparent outliers for numerical data sets.</p>	<p>Module: Data Analysis and Probability Unit: Modeling and Displaying Events <u>Session 1</u>: Displaying and Analyzing Data</p>		<p>Module: Fundamentals of Statistics Unit: The Mean, Median, and Mode <u>Session 1</u>: Defining the Mean and Median <u>Session 2</u>: Defining the Mode <u>Session 3</u>: Calculating the Mean, Median, and Mode</p>		<p>Module: Describing Data Unit: Graphical Display <u>Session 1</u>: Stem-and-Leaf Plots and Box Plots</p>

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Statistics, 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
1.3 Interpret one- and two-variable data graphs to answer questions about a situation.	Module: Data Analysis and Probability Unit: Modeling and Displaying Events <u>Session 1</u> : Displaying and Analyzing Data		Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs <u>Session 1</u> : Exploring Line Graphs <u>Session 2</u> : Exploring Bar Graphs <u>Session 3</u> : Interpreting Pie Charts		

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Statistics, 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
<p>2.0 Students make predictions for simple probability situations: SEE BELOW</p>					
<p>2.1 Represent all possible outcomes for a simple probability situation in an organized way (e.g., tables, grids, tree diagrams).</p>	<p>Module: Data Analysis and Probability Unit: Modeling and Displaying Events <u>Session 2</u>: Looking at Chance</p>		<p>Module: Fundamentals of Probability Unit: Simple Probability <u>Session 1</u>: Defining and Expressing Probability <u>Session 2</u>: Calculating Probabilities on a Color Wheel</p> <p>Module: Fundamentals of Probability Unit: Probability of Combined Events <u>Session 1</u>: Calculating the Probability of Independent Events <u>Session 2</u>: Determining the Sample Space of an Experiment <u>Session 3</u>: Calculating the Probability of Mutually Exclusive Events</p>		

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Statistics, 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
<p>2.2 Express outcomes of experimental probability situations verbally and numerically (e.g., 3 out of 4; $\frac{3}{4}$)</p>	<p>Module: Data Analysis and Probability Unit: Modeling and Displaying Events <u>Session 2</u>: Looking at Chance</p>		<p>Module: Fundamentals of Probability Unit: Simple Probability <u>Session 2</u>: Calculating Probabilities on a Color Wheel <u>Session 3</u>: Determining Probability of Complementary Events Module: Fundamentals of Probability Unit: Probability of Combined Events <u>Session 1</u>: Calculating the Probability of Independent Events <u>Session 2</u>: Determining the Sample Space of an Experiment <u>Session 3</u>: Calculating the Probability of Mutually Exclusive Events</p>		

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Mathematical Reasoning

	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
1.0 Students make decisions about how to approach problems:	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.					
1.2 Determine when and how to break a problem into simpler parts.					

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Mathematical Reasoning

	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
2.0 Students use strategies, skills, and concepts in finding solutions:	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.
2.1 Use estimation to verify the reasonableness of calculated results.					
2.2 Apply strategies and results from simpler problems to more complex problems.					

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Mathematical Reasoning

	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
2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.
2.4 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language, support solutions with evidence in both verbal and symbolic work.					
2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.					
2.6 Make precise calculations and check the validity of the results from the context of the problem.					

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Mathematical Reasoning

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3.0 Students move beyond a particular problem by generalizing to other situations:	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.	The concepts on this page are thoroughly integrated throughout this course.
3.1 Evaluate the reasonableness of the solution in the context of the original situation.					
3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.					
3.3 Develop generalizations of the results obtained and the strategies used and apply them in other circumstances.					