

Alignment of Destination Math Courseware
with
California Mathematics Content Standards
GRADE 6

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 compare and order positive and negative fractions, decimals, and mixed numbers. Students solve problems involving fractions, ratios, proportions, and percentages:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>1.1 Compare and order positive and negative fractions, decimals, and mixed numbers and place them on a number line.</p>	<p>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 <u>Session 4:</u> Ordering and Rounding Fractions Module: Decimals Unit: Introduction <u>Session 1:</u> Tenths, Hundredths, and Thousandths <u>Session 2:</u> Ordering and Rounding</p> <p>The Graphing Tool</p>	<p>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 Module: Fractions Unit: Equivalent Fractions <u>Session 1:</u> Identifying the Factors of a Number <u>Session 2:</u> Expressing Fractions in Lowest Terms <u>Session 3:</u> Writing and Comparing Equivalent Fractions</p>			

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<p>1.1 Compare and order positive and negative fractions, decimals, and mixed numbers and place them on a number line.</p> <p style="text-align: center;">(Continued)</p>		<p>Module: Decimals Unit: Essentials of Decimals <u>Session 1</u>: Investigating Decimal Place Values <u>Session 2</u>: Rounding Decimals <u>Session 3</u>: Exploring Repeating and Terminating Decimals The Graphing Tool</p>			
<p>1.2 Interpret and use ratios in different contexts (e.g., batting averages, miles per hour) to show the relative sizes of two quantities, using appropriate notations (a/b, a to b, $a:b$).</p>	<p>Module: Decimals Unit: Introduction <u>Session 3</u>: Ratios, Decimals, and Percents</p>	<p>Module: Percents Unit: Finding Percents of Quantities <u>Session 3</u>: Expressing Ratios as Percents</p>	<p>Module: Ratio and Proportion Unit: Ratio <u>Session 1</u>: Defining Ratio <u>Session 2</u>: Expressing Ratios as Equivalent Fractions and Decimals <u>Session 3</u>: Forming Ratios Between Unlike Quantities</p>		
<p>1.3 Use proportions to solve problems (e.g., determine the value of N if $4/7 = N/21$, find the length of a side of a polygon similar to a known polygon). Use cross-multiplication as a method for solving such problems, understanding it as the multiplication of both sides of an equation by a multiplicative inverse.</p>			<p>Module: Ratio and Proportion Unit: Proportion <u>Session 1</u>: Defining a Proportion <u>Session 2</u>: Solving for a Variable in a Proportion <u>Session 3</u>: Applying the Means/Extremes Property</p>		

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<p>1.3 Use proportions to solve problems (e.g., determine the value of N if $4/7 = N/21$, find the length of a side of a polygon similar to a known polygon). Use cross-multiplication as a method for solving such problems, understanding it as the multiplication of both sides of an equation by a multiplicative inverse.</p> <p style="text-align: center;">(Continued)</p>			<p>Module: Ratio and Proportion Unit: Similar Polygons <u>Session 1</u>: Defining Similarity <u>Session 2</u>: Identifying Equivalent Ratios <u>Session 3</u>: Setting Up and Solving Proportions in Similar Polygons</p>		
<p>1.4 Calculate given percentages of quantities and solve problems involving discounts at sales, interest earned, and tips.</p>		<p>Module: Percents Unit: Essentials of Percents <u>Session 1</u>: Investigating the Meaning of Percent <u>Session 2</u>: Expressing Percents as Proper Fractions <u>Session 3</u>: Expressing Percents Greater than 100% as Improper Fractions Module: Percents Unit: Finding Percents of Quantities <u>Session 1</u>: Finding Percents of a Whole <u>Session 2</u>: Expressing Ratios as Percents <u>Session 3</u>: Calculating the Whole from a Part and a Percent</p>			

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<p>1.4 Calculate given percentages of quantities and solve problems involving discounts at sales, interest earned, and tips.</p> <p style="text-align: center;">(Continued)</p>		<p>Module: Percents Unit: Increasing and Decreasing Percents <u>Session 1</u>: Calculating Percent Increases <u>Session 2</u>: Calculating Percent Decreases <u>Session 3</u>: Calculating Simple Interest</p>			

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<p>2.0 Students calculate and solve problems involving addition, subtraction, multiplication, and division:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>2.1 Solve problems involving addition, subtraction, multiplication, and division of positive fractions and explain why a particular operation was used for a given situation.</p>	<p>Module: Fractions Unit: Addition and Subtraction <u>Session 1</u>: Sums Involving Like Denominators <u>Session 2</u>: Differences Involving Like Denominators <u>Session 3</u>: Working with Unlike Denominators Module: Fractions Unit: Multiplication and Division <u>Session 1</u>: Finding Products <u>Session 2</u>: Quotients and Remainders</p>	<p>Module: Fractions Unit: Multiplying Fractions <u>Session 1</u>: Finding Products of Fractions, Whole Numbers, and Mixed Numbers <u>Session 2</u>: Using the GCF in Finding Products <u>Session 3</u>: Representing Multiplication Module: Fractions Unit: Dividing Fractions <u>Session 1</u>: Estimating Quotients of Fractions <u>Session 2</u>: Using Multiplicative Inverses <u>Session 3</u>: Solving Missing Value Problems when Dividing Fractions</p>			

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<p>2.1 Solve problems involving addition, subtraction, multiplication, and division of positive fractions and explain why a particular operation was used for a given situation.</p> <p style="text-align: center;">(Continued)</p>		<p>Module: Fractions Unit: Adding Fractions <u>Session 1:</u> Adding with Like Denominators <u>Session 2:</u> Adding with Unlike Denominators <u>Session 3:</u> Solving Missing Value Problems when Adding Fractions</p> <p>Module: Fractions Unit: Subtracting Fractions <u>Session 1:</u> Subtracting with Like Denominators <u>Session 2:</u> Subtracting with Unlike Denominators <u>Session 3:</u> Solving Missing Value Problems when Subtracting Fractions</p>			
<p>2.2 Explain the meaning of multiplication and division of positive fractions and perform the calculations (e.g., $5/8 \div 15/16 = 5/8 \times 16/15 = 2/3$).</p>	<p>Module: Fractions Unit: Multiplication and Division <u>Session 1:</u> Finding Products <u>Session 2:</u> Quotients and Remainders</p>	<p>Module: Fractions Unit: Multiplying Fractions <u>Session 1:</u> Finding Products of Fractions, Whole Numbers, and Mixed Numbers <u>Session 2:</u> Using the GCF in Finding Products <u>Session 3:</u> Representing Multiplication</p>			

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<p>2.2 Explain the meaning of multiplication and division of positive fractions and perform the calculations (e.g., $5/8 \div 15/16 = 5/8 \times 16/15 = 2/3$).</p> <p style="text-align: center;">(Continued)</p>		<p>Module: Fractions Unit: Dividing Fractions <u>Session 1:</u> Estimating Quotients of Fractions <u>Session 2:</u> Using Multiplicative Inverses <u>Session 3:</u> Solving Missing Value Problems when Dividing Fractions</p>			
<p>2.3 Solve addition, subtraction, multiplication, and division problems, including those arising in concrete situations, that use positive and negative integers and combinations of these operations.</p>	<p>Module: Operations with Numbers Unit: The Integers <u>Session 1:</u> Integer Sums <u>Session 2:</u> Differences Between Integers</p>	<p>Module: Integers & Order of Operations Unit: Adding and Subtracting Signed Numbers <u>Session 1:</u> Exploring the Number Line and Absolute Value <u>Session 2:</u> Adding with Absolute Value <u>Session 3:</u> Subtracting with Absolute Value Module: Integers & Order of Operations Unit: Multiplying and Dividing Signed Numbers <u>Session 1:</u> Finding Products of Signed Numbers <u>Session 2:</u> Representing the Multiplication of Signed Numbers <u>Session 3:</u> Finding Quotients Using Reciprocals</p>			

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<p>2.3 Solve addition, subtraction, multiplication, and division problems, including those arising in concrete situations, that use positive and negative integers and combinations of these operations.</p> <p style="text-align: center;">(Continued)</p>		<p>Module: Integers & Order of Operations Unit: Order of Operations <u>Session 1</u>: Simplifying Expressions <u>Session 2</u>: Introducing the Distributive Property <u>Session 3</u>: Using Grouping Symbols</p>			
<p>2.4 Determine the least common multiple and the greatest common divisor of whole numbers; use them to solve problems with fractions (e.g., to find a common denominator to add two fractions or to find the reduced form for a fraction).</p>	<p>Module: Numbers and Number Sense Unit: Numbers as Factors <u>Session 3</u>: Identifying Common Factors Module: Fractions Unit: Proper and Improper Fractions <u>Session 3</u>: Equivalent Fractions Module: Fractions Unit: Addition and Subtraction <u>Session 3</u>: Working with Unlike Denominators</p>	<p>Module: Fractions Unit: Equivalent Fractions <u>Session 1</u>: Identifying the Factors of a Number <u>Session 2</u>: Expressing Fractions in Lowest Terms <u>Session 3</u>: Writing and Comparing Equivalent Fractions Module: Fractions Unit: Adding Fractions <u>Session 2</u>: Adding with Unlike Denominators <u>Session 3</u>: Solving Missing Value Problems when Adding Fractions</p>			

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Algebra and Functions

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<p>1.0 Students write verbal expressions and sentences as algebraic expressions and equations; they evaluate algebraic expressions, solve simple linear equations, and graph and interpret their results:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>1.1 Write and solve one-step linear equations in one variable.</p>		<p>These (both MSCV and MAC1) are pretty advanced for sixth grade students.</p> <p style="text-align: center;">→</p>	<p>Module: Essentials of Algebra Unit: Algebra Fundamentals <u>Session 1</u>: Introducing Variables Module: Essentials of Algebra Unit: Simple Equations <u>Session 1</u>: Using Variables to Express Relationships <u>Session 3</u>: Solving Simple Equations</p>	<p>Module: The Language of Algebra Unit: Variables, Expressions, and Equations <u>Session 1</u>: Translating Words into Expressions Module: The Language of Algebra Unit: Linear Equations in One Variable <u>Session 1</u>: Applying Inverse Operations</p>	
<p>1.2 Write and evaluate an algebraic expression for a given situation, using up to three variables.</p>			<p>Module: Essentials of Algebra Unit: Algebra Fundamentals <u>Session 2</u>: Identifying Components of Algebraic Expressions <u>Session 3</u>: Replacing Variables in a Formula</p>	<p>Module: The Language of Algebra Unit: Variables, Expressions, and Equations <u>Session 1</u>: Translating Words into Expressions <u>Session 3</u>: Evaluating and Simplifying Expressions</p>	

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<p>1.2 Write and evaluate an algebraic expression for a given situation, using up to three variables.</p> <p style="text-align: center;">(Continued)</p>			<p>Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression <u>Session 1:</u> Representing the Dimensions and Area of a Rectangle <u>Session 2:</u> Combining Like Terms <u>Session 3:</u> Evaluating Expressions Using Substitution</p> <p>Module: Essentials of Algebra Unit: Variables on Both Sides of the Equation <u>Session 1:</u> Writing Equations</p> <p>Module: Essentials of Algebra Unit: Solving Literal Equations <u>Session 1:</u> Identifying the Variables in a Given Formula <u>Session 2:</u> Rewriting a Formula in Terms of a Different Variable <u>Session 3:</u> Substituting Values and Solving an Equation</p>		

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1.3 Apply algebraic order of operations and the commutative, associate, and distributive properties to evaluate expressions; and justify each step in the process.		Module: Integers & Order of Operations Unit: Order of Operations <u>Session 1</u> : Simplifying Expressions <u>Session 2</u> : Introducing the Distributive Property <u>Session 3</u> : Using Grouping Symbols (not associative property)	Module: Essentials of Algebra Unit: Simple Equations <u>Session 2</u> : Simplifying Algebraic Expressions (not associative property)	Module: The Language of Algebra Unit: Variables, Expressions, and Equations <u>Session 2</u> : Applying Properties of Real Numbers	
1.4 Solve problems manually by using the correct order of operations or by using a scientific calculator.			Module: Essentials of Algebra Unit: Simple Equations <u>Session 3</u> : Solving Simple Equations Module: Essentials of Algebra Unit: Variables on Both Sides of the Equation <u>Session 2</u> : Simplifying Both Sides of an Equation <u>Session 3</u> : Checking the Solution to an Equation The Calculator Tool The Graphing Tool		

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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
<p>2.0 Students analyze and use tables, graphs, and rules to solve problems involving rates and proportions: SEE BELOW</p>					
<p>2.1 Convert one unit of measurement to another (e.g., from feet to miles, from centimeters to inches).</p>					
<p>2.2 Demonstrate an understanding that <i>rate</i> is a measure of one quantity per unit value of another quantity.</p>				<p>This concept is thoroughly integrated throughout this course.</p>	
<p>2.3 Solve problems involving rates, average speed, distance, and time.</p>				<p>These problems are thoroughly integrated throughout this course.</p>	

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<p>3.0 Students investigate geometric patterns and describe them algebraically:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>3.1 Use variables in expressions describing geometric quantities (e.g., $P = 2w + 2l$, $A = 1/2bh$, $C = \pi d$ - the formulas for the perimeter of a rectangle, the area of a triangle, and the circumference of a circle, respectively.</p>			<p>Module: Essentials of Algebra Unit: Algebra Fundamentals <u>Session 1</u>: Introducing Variables</p> <p>Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression <u>Session 1</u>: Representing the Dimensions and Area of a Rectangle</p>		
<p>3.2 Express in symbolic form simple relationships arising from geometry.</p>			<p>Module: Fundamentals of Geometry Unit: Geometry Fundamentals <u>Session 2</u>: Defining Complementary and Supplementary Angles</p>		

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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
<p>3.2 Express in symbolic form simple relationships arising from geometry.</p> <p style="text-align: center;">(Continued)</p>	<p>Module: Geometry Unit: Measurement <u>Session 1:</u> Lines, Angles, and Circles <u>Session 2:</u> Rectangles and Squares</p>		<p>Module: Fundamentals of Geometry Unit: Triangles <u>Session 2:</u> Exploring the Area of a Triangle Module: Fundamentals of Geometry Unit: Volume and Surface Area <u>Session 1:</u> Calculating the Volume of a Right Triangular Prism <u>Session 2:</u> Calculating the Surface Area of a Right Triangular Prism <u>Session 3:</u> Calculating the Volume and Surface Area of a Right Cylinder</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>1.0 Students deepen their understanding of the measurement of plane and solid shapes and use this understanding to solve problems:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>1.1 Understand the concept of a constant such as π, know the formulas for the circumference and area of a circle.</p>		<p>Module: Decimals Unit: Essentials of Decimals <u>Session 2</u>: Rounding Decimals</p>	<p>Module: Fundamentals of Geometry Unit: Volume and Surface Area <u>Session 3</u>: Calculating the Volume and Surface Area of a Right Cylinder (advanced level)</p>		
<p>1.2 Know common estimates of π, (3.14, 22/7) and use these values to estimate and calculate the circumference and the area of circles; compare with actual measurements.</p>		<p>Module: Decimals Unit: Essentials of Decimals <u>Session 2</u>: Rounding Decimals</p>	<p>Module: Fundamentals of Geometry Unit: Volume and Surface Area <u>Session 3</u>: Calculating the Volume and Surface Area of a Right Cylinder</p>		
<p>1.3 Know and use the formulas for the volume of triangular prisms and cylinders (area of base X height); compare these formulas and explain the similarity between them and the formula for the volume of a rectangular solid.</p>			<p>Module: Fundamentals of Geometry Unit: Volume and Surface Area <u>Session 1</u>: Calculating the Volume of a Right Triangular Prism <u>Session 3</u>: Calculating the Volume and Surface Area of a Right Cylinder</p>		

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Measurement and Geometry

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<p>2.0 Students identify and describe the properties of two-dimensional figures:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>2.1 Identify angles as vertical, adjacent, complementary, or supplementary and provide descriptions of these terms.</p>			<p>Module: Fundamentals of Geometry Unit: Geometry Fundamentals <u>Session 2:</u> Defining Complementary and Supplementary Angles <u>Session 3:</u> Recognizing Congruent Angles</p>		
<p>2.2 Use the properties of complementary and supplementary angles and the sum of the angles of a triangle to solve problems involving an unknown angle.</p>			<p>Module: Fundamentals of Geometry Unit: Triangles <u>Session 3:</u> Classifying Triangles by Angles</p>		
<p>2.3 Draw quadrilaterals and triangles from given information about them (e.g., a quadrilateral having equal sides but no right angles, a right isosceles triangle).</p>	<p>Module: Geometry Unit: Measurement <u>Session 2:</u> Rectangles and Squares <u>Session 4:</u> Parallelograms and Trapezoids</p>		<p>Module: Fundamentals of Geometry Unit: Triangles <u>Session 1:</u> Classifying Triangles by Sides <u>Session 3:</u> Classifying Triangles by Angles</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>1.0 Students compute and analyze statistical measurements for data sets:</p> <p style="text-align: center;">SEE BELOW</p>					
<p>1.1 Compute the range, mean, median, and mode of 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>1.2 Understand how additional data added to data sets may affect these computations of measures of central tendency.</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>		

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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
1.3 Understand how the inclusion or exclusion of outliers affects measures of central tendency.			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 (These sessions do not mention outliers by name.)		Module: Describing Data Unit: Graphical Displays <u>Session 1</u> : Stem-and-Leaf Plots and Box Plots
1.4 Know why a specific measure of central tendency (mean, median, mode) provides the most useful information in a given context.			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		

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<p>2.0 Students use data samples of a population and describe the characteristics and limitations of the samples: SEE BELOW</p>					
<p>2.1 Compare different samples of a population with the data from the entire population and identify a situation in which it makes sense to use a sample.</p>					
<p>2.2 Identify different ways of selecting a sample (e.g., convenience sampling, responses to a survey, random sampling) and which method makes a sample more representative for a population.</p>					
<p>2.3 Analyze data displays and explain why the way in which the question was asked might have influenced the results obtained and why the way in which the results were displayed might have influenced the conclusions reached.</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>		

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2.4 Identify data that represent sampling errors and explain why the sample (and the display) might be biased.					
2.5 Identify claims based on statistical data and, in simple cases, evaluate the validity of the claims.					

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<p>3.0 Students determine theoretical and experimental probabilities and use these to make predictions about events: SEE BELOW</p>					
<p>3.1 Represent all possible outcomes for compound events in an organized way (e.g., tables, grids, tree diagrams) and express the theoretical probability of each outcome.</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 <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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3.2 Use data to estimate the probability of future events (e.g., batting averages or number of accidents per mile driven).			This type of problem is thoroughly integrated throughout Module 6: Fundamentals of Probability		
3.3 Represent probabilities as ratios, proportions, decimals between 0 and 1, and percentages between 0 and 100 and verify that the probabilities computed are reasonable; know that if P is the probability of an event, $1-P$ is the probability of an event not occurring.	Module: Data Analysis and Probability Unit: Modeling and Displaying Events <u>Session 2</u> : Looking at Chance		Module: Fundamentals of Probability Unit: Simple Probability <u>Session 1</u> : Defining and Expressing Probability		

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3.4 Understand that the probability of either of two disjoint events occurring is the sum of the two individual probabilities and that the probability of one event following another, in independent trials, is the product of the two probabilities.			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		
3.5 Understand the difference between independent and dependent events.	Module: Data Analysis and Probability Unit: Modeling and Displaying Events <u>Session 2</u> : Looking at Chance		Module: Fundamentals of Probability Unit: Probability of Combined Events <u>Session 1</u> : Calculating the Probability of Independent Events <u>Session 3</u> : Calculating the Probability of Mutually Exclusive Events		

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Mathematical Reasoning

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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, identifying missing information, sequencing and prioritizing information, and observing patterns.					
1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.					
1.3 Determine when and how to break a problem into simpler parts.					

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GRADE 6**

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.					
2.3 Estimate unknown quantities graphically and solve for them by using logical reasoning and arithmetic and algebraic techniques.					

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2.4 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.
2.5 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.					
2.6 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.					
2.7 Make precise calculations and check the validity of the results from the context of the problem.					

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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 to new problem situations.					