



8th Grade Correlation to Mathematics Standards

	Course Standards for Grade 8 Mathematics	I CAN Learn® Lesson #	I CAN Learn® Lesson Title
NUMBER AND OPERATIONS			
8-2.1	Apply an algorithm to add, subtract, multiply, and divide integers.	MPA-053	Adding, Subtracting, Multiplying, and Dividing Integers
8-2.2	Understand the effect of multiplying and dividing a rational number by another rational number.	HA1-050	Multiplying Real Numbers
		HA1-055	Dividing Real Numbers
8-2.3	Represent the approximate location of irrational numbers on a number line.	HA1-015	Graphing Real Numbers Using a Number Line
8-2.4	Compare rational and irrational numbers by using the symbols \leq , \geq , $<$, $>$, and $=$.	HA1-025	Comparing and Ordering Real Numbers
8-2.5	Apply the concept of absolute value.	HA1-030	Using Opposites and Absolute Values
8-2.6	Apply strategies and procedures to approximate between two whole numbers the square roots or cube roots of numbers less than 1,000.	HA1-492	Simplifying Square and Cube Roots
8-2.7	Apply ratios, rates, and proportions.	HA1-360	Expressing Ratios in Simplest Form and Solving Equations Involving Proportions
		HA1-362	Solving Work Problems
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
ALGEBRA			
8-3.1	Translate among verbal, graphic, tabular, and algebraic representations of linear functions.	HA1-402	Translating Among Multiple Representations of Functions
		HA1-442	Interpreting Graphs of Functions in Real-Life Situations
		HA1-437	Identifying Relations as Functions
		HA1-955	Analyzing Linear Functions
8-3.2	Represent algebraic relationships with equations and inequalities.	HA1-104	Translating Word Statements into Equations
		HA1-115	Using the Addition and Subtraction Properties for Equations
		HA1-120	Using the Multiplication and Division Properties for Equations
		HA1-124	Using a Concrete Model to Solve One- and Two-Step Equations
		HA1-125	Solving Equations Using More Than One Property
		HA1-105	Translating Word Statements into Inequalities
		HA1-180	Graphing Equations and Inequalities on the Number Line
		HA1-185	Solving Inequalities Using the Addition and Subtraction Properties
		HA1-190	Solving Inequalities Using the Multiplication and Division Properties
8-3.3	Use commutative, associative, and distributive properties to examine the equivalence of a variety of algebraic expressions.	HA1-085	Simplifying Expressions Using the Properties of Real Numbers
8-3.4	Apply procedures to solve multistep equations.	HA1-125	Solving Equations Using More Than One Property
		HA1-140	Solving Equations by Combining Like Terms
		HA1-144	Using a Concrete Model to Solve Equations with Variables on Both Sides
		HA1-145	Solving Equations with Variables on Both Sides
8-3.5	Classify relationships between two variables in graphs, tables, and/or	MPA-150	Identifying and Graphing Linear and Nonlinear Functions

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	equations as either linear or nonlinear.		
		HA1-436	Identifying Relations
		HA1-437	Identifying Relations as Functions
		HA1-892	Data Analysis Using the Graphing Calculator
8-3.6	Identify the coordinates of the x- and y-intercepts of a linear equation from a graph, equation, and/or table.	HA1-380	Graphing Linear Equations
		HA1-398	Graphing Linear Equations Using Slope and y-Intercept or Slope and a Point
		HA1-375	Identifying Solutions of Equations in Two Variables
8-3.7	Identify the slope of a linear equation from a graph, equation, and/or table.	HA1-385	Finding the Slope of a Line from its Graph or from the Coordinates of Two Points
		HA1-394	Finding the Slope of a Line from its Graph or from the Coordinates of Two Points
GEOMETRY			
8-4.1	Apply the Pythagorean theorem.	HA1-515	Using the Pythagorean Theorem
		HA1-516	Applications of the Pythagorean Theorem
8-4.2	Use ordered pairs, equations, intercepts, and intersections to locate points and lines in a coordinate plane.	HA1-370	Graphing Ordered Pairs on a Coordinate Plane
		HA1-375	Identifying Solutions of Equations in Two Variables
		HA1-380	Graphing Linear Equations
		HA1-955	Analyzing Linear Functions
		HA1-395	Finding the Equation of a Line Parallel or Perpendicular to a Given Line
		HA1-398	Graphing Linear Equations Using Slope and y-Intercept or Slope and a Point
		HA1-401	How Variations of "m" and "b" Affect the Graph of $y = mx + b$
		HA1-405	Determining an Equation of a Line Given the Slope and Coordinates of One Point
		HA1-415	Graphing Linear Inequalities with Two Variables
		HA1-416	Graphing Linear Inequalities with Two Variables Using the Graphing Calculator
8-4.3	Apply a dilation to a square, rectangle, or right triangle in a coordinate plane.	MPA-108	Graphing Translations and Reflections on the Coordinate Plane
8-4.4	Analyze the effect of a dilation on a square, rectangle, or right triangle in a coordinate plane.	MPA-108	Graphing Translations and Reflections on the Coordinate Plane
MEASUREMENT			
8-5.1	Use proportional reasoning and the properties of similar shapes to determine the length of a missing side.	MPA-121	Identifying Similar and Congruent Polygons Using Proportions
8-5.2	Explain the effect on the area of two-dimensional shapes and on the volume of three-dimensional shapes when one or more of the dimensions are changed.	MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
8-5.3	Apply strategies and formulas to determine the volume of the three-dimensional shapes cone and sphere.	HA1-891	Using Models to Derive Formulas for Three-Dimensional Solids
8-5.4	Apply formulas to determine the exact (π) circumference and area of a circle.	MPA-070	Finding the Circumference of a Circle
		MPA-071	Finding the Area of a Circle
		HA1-890	Using Models to Derive Formulas for Two-Dimensional Geometric Figures
8-5.5	Apply formulas to determine the perimeters and areas of trapezoids.	MPA-069	Finding the Area of Triangles and Trapezoids
8-5.6	Analyze a variety of measurement situations to determine the necessary level of accuracy and precision.	MPA-134	Calculating with Precision, Accuracy, and Significant Digits
8-5.7	Use multistep unit analysis to convert between and within U.S. Customary System and the metric system.	MPA-155	Comparing and Converting Rates
DATA ANALYSIS AND PROBABILITY			
8-6.1	Generalize the relationship between two sets of data by using scatterplots and lines of best fit.	MPA-132	Interpreting and Creating Scatterplots
		HA1-965	Determining the Best-Fitting Line
8-6.2	Organize data in matrices or scatterplots as appropriate.	HA1-840	Introduction to Matrices

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		MPA-132	Interpreting and Creating Scatterplots
		HA1-965	Determining the Best-Fitting Line
8-6.3	Use theoretical and experimental probability to make inferences and convincing arguments about an event or events.	HA1-560	Determining Probability of an Event and Complementary Event from a Random Experiment
8-6.4	Apply procedures to calculate the probability of two dependent events.	HA1-565	Solving Problems Involving Independent, Dependent, and Mutually Exclusive and Inclusive Events
8-6.5	Interpret the probability for two dependent events.	HA1-565	Solving Problems Involving Independent, Dependent, and Mutually Exclusive and Inclusive Events
8-6.6	Apply procedures to compute the odds of a given event.	HA1-560	Determining Probability of an Event and Complementary Event from a Random Experiment
8-6.7	Analyze probability using area models.	Content under Review	
8-6.8	Interpret graphic and tabular data representations by using range and the measures of central tendency (mean, median, and mode).	HA1-540	Finding the Mean, Median, and Mode from Data and Frequency Distribution Tables
		HA1-541	Analyzing Data Using the Measures of Central Tendency and the Range

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the South Carolina Mathematics Curriculum 2007 document adopted by the South Carolina State Board of Education in July, 2007.