



7th Grade Correlation to Mathematics Content Standards

	Mathematics Curriculum Framework	I CAN Learn® Lesson Number	I CAN Learn® Lesson Title
BIG IDEA 1	Develop an understanding of and apply proportionality, including similarity.		
MA.7.A.1.1	Distinguish between situations that are proportional or not proportional and use proportions to solve problems.	MM1-215	Identifying a Rate to Solve Problems
		MM1-220	Writing and Forming Proportions
		MM1-225	Solving Proportions
		MPA-110	Solving Problems Using Proportions, Scale Drawings, Models, and Maps
		MPA-083	Finding Number Given Percent and Total
		MPA-084	Finding Percent Given Number and Total
		MPA-085	Finding Total Given Number and Percent
		MPA-155	Comparing and Converting Rates
		MM1-475	Using Proportions to Solve for Unknown Lengths of Sides of Similar Figures
		MPA-142	Solving Problems With Linear Functions and Direct Variation
		MPA-121	Identifying Similar and Congruent Polygons Using Proportions
MA.7.A.1.2	Solve percent problems, including problems involving discounts, simple interest, taxes, tips and percents of increase or decrease.	MPA-087	Finding Percent Increase and Decrease
		MPA-126	Solving Real-World Problems Involving Sales Tax
		MPA-127	Solving Real-World Problems Involving Discounts, Markup, and Commission
		MPA-128	Solving Real-World Problems Involving Simple and Compound Interest
MA.7.A.1.3	Solve problems involving similar figures.	MM1-470	Using Ratios to Identify Similar Figures
		MM1-475	Using Proportions to Solve for Unknown Lengths of Sides of Similar Figures
		MPA-121	Identifying Similar and Congruent Polygons Using Proportions
MA.7.A.1.4	Graph proportional relationships and identify the unit rate as the slope of the related linear function.	MPA-135	Determining the Slope of a Line
		MPA-140	Examining Linear Equations in Slope-Intercept Form
		MPA-150	Identifying and Graphing Linear and Nonlinear Functions
MA.7.A.1.5	Distinguish direct variation from other relationships, including inverse variation.	MPA-142	Solving Problems With Linear Functions and Direct Variation
		HA1-453	Solving Problems Involving Inverse Variation
MA.7.A.1.6	Apply proportionality to measurement in multiple contexts, including scale drawings and constant speed.	MPA-110	Solving Problems Using Proportions, Scale Drawings, Models, and Maps
		MM1-635	Calculating Distance, Rate, or Time by Solving Equations
		MPA-155	Comparing and Converting Rates
BIG IDEA 2	Develop an understanding of and use formulas to determine surface areas and volumes of three-dimensional shapes.		
MA.7.G.2.1	Justify and apply formulas for surface area and volume of pyramids, prisms, cylinders, and cones.	MPA-106	Identifying a Solid Figure From a Net
		MPA-073	Finding the Surface Area of Rectangular Prisms
		MPA-074	Finding the Surface Area of Cylinders

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		MPA-075	Finding the Volume of Rectangular Prisms
		MPA-076	Finding the Volume of Cylinders
		MPA-077	Solving Problems Using a Formula
		MPA-115	Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models
MA.7.G.2.2	Use formulas to find surface areas and volume of three-dimensional composite shapes.	HA1-891	Using Models to Derive Formulas for Three-Dimensional Solids
BIG IDEA 3	Develop an understanding of operations on all rational numbers and solving linear equations.		
MA.7.A.3.1	Use and justify the rules for adding, subtracting, multiplying, dividing, and finding the absolute value of integers.	MPA-044	Finding Opposite and Absolute Values of Integers
		MPA-047	Adding Integers with Like Signs
		MPA-048	Adding Integers with Unlike Signs
		MPA-050	Subtracting Integers with Unlike Signs
		MPA-051	Multiplying Integers with Like and Unlike Signs
		MPA-052	Dividing Integers with Like and Unlike Signs
		MPA-117	Modeling Integer Arithmetic Using Cups and Counters
		MPA-053	Adding, Subtracting, Multiplying, and Dividing Integers
MA.7.A.3.2	Add, subtract, multiply, and divide integers, fractions, and terminating decimals, and perform exponential operations with rational bases and whole number exponents including solving problems in everyday contexts.	MPA-047	Adding Integers with Like Signs
		MPA-048	Adding Integers with Unlike Signs
		MPA-050	Subtracting Integers with Unlike Signs
		MPA-051	Multiplying Integers with Like and Unlike Signs
		MPA-052	Dividing Integers with Like and Unlike Signs
		MPA-117	Modeling Integer Arithmetic Using Cups and Counters
		MPA-053	Adding, Subtracting, Multiplying, and Dividing Integers
		MPA-034	Adding and Subtracting Fractions
		MPA-035	Adding and Subtracting Mixed Numbers with Unlike Denominators
		MPA-123	Modeling Multiplication and Division of Fractions
		MPA-036	Multiplying Fractions and Mixed Numbers and Simplifying
		MPA-037	Dividing Fractions and Mixed Numbers and Simplifying
		MPA-018	Adding and Subtracting Decimals
		MPA-122	Modeling Multiplication and Division of Decimals
		MPA-019	Multiplying Decimals
		MPA-020	Multiplying Decimals by Powers of Ten
		MPA-119	Dividing Decimals
		MM1-017	Identifying Exponential and Standard Form of a Number
		MPA-013	Using Powers and Exponents in Expressions
MA.7.A.3.3	Formulate and use different strategies to solve one-step and two-step linear equations, including equations with rational coefficients.	MPA-010	Solving One-Step Equations of Whole Numbers Using Addition and Subtraction
		MPA-011	Solving One-Step Equations of Whole Numbers Using Multiplication and Division
		MPA-012	Solving One-Step Equations of Whole Numbers Using All Operations
		MPA-042	Solving Problems Using an Equation
		MPA-054	Solving One-Step Equations with Integers Using all Four Operations
		MPA-100	Solving Two-Step Equations with Positive Coefficients (Future release)
		MPA-165	Solving Two-Step Equations with Negative Coefficients (Future release)
		MPA-101	Solving Two-Step Equations by Combining Like Terms (Future release)
		MPA-170	Solving Two-Step Equations Using the Distributive Property (Future release)
		MPA-175	Solving Equations with Variables on Both Sides (Future release)

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MA.7.A.3.4	Use the properties of equality to represent an equation in a different way and to show that two equations are equivalent in a given context.	MPA-125	Formulating a Possible Problem Situation Given an Equation
		MPA-170	Solving Two-Step Equations Using the Distributive Property (Future release)
		MPA-175	Solving Equations with Variables on Both Sides (Future release)
SUPPORTING IDEA 4	Geometry and Measurement		
MA.7.G.4.1	Determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and apply these relationships to solve problems.	MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
MA.7.G.4.2	Predict the results of transformations and draw transformed figures, with and without the coordinate plane.	MM1-500	Using Translations, Rotations and Reflections to Transform Shapes
		MPA-108	Graphing Translations and Reflections on the Coordinate Plane
		MPA-160	Plotting Polygons and Finding the Area
		MPA-180	Examining Line and Rotational Symmetry (Future release)
MA.7.G.4.3	Identify and plot ordered pairs in all four quadrants of the coordinate plane.	MPA-046	Graphing Points on a Coordinate Plane
MA.7.G.4.4	Compare, contrast, and convert units of measure between different measurement systems (US customary or metric (SI)), dimensions, and derived units to solve problems.	MPA-062	Converting Units in Customary System
		MPA-061	Converting Metric Units of Length, Capacity, and Mass
		MPA-063	Converting Units Between Metric and Customary System
		MPA-155	Comparing and Converting Rates
SUPPORTING IDEA 5	Number and Operations		
MA.7.A.5.1	Express rational numbers as terminating or repeating decimals.	MPA-029	Converting Fractions and Decimals
		MPA-124	Classifying Numbers in the Real Number System
MA.7.A.5.2	Solve non-routine problems by working backwards.	MPA-116	Solving Real-Life Problems by Using Guess-and-Check and Working Backwards
SUPPORTING IDEA 6	Data Analysis		
MA.7.S.6.1	Evaluate the reasonableness of a sample to determine the appropriateness of generalizations made about the population.	MM1-385	Collecting Data
MA.7.S.6.2	Construct and analyze histograms, stem-and-leaf plots, and circle graphs.	MPA-131	Interpreting and Creating Histograms
		MPA-096	Constructing Stem-and-Leaf Plots
		MM1-405	Interpreting and Constructing Circle Graphs
		MPA-098	Making Predictions from Graphs and Choosing the Correct Graph
SUPPORTING IDEA 7	Probability		
MA.7.P.7.1	Determine the outcome of an experiment and predict which events are likely or unlikely, and if the experiment is fair or unfair.	MPA-090	Finding the Probability of Simple Real-Life Events
MA.7.P.7.2	Determine, compare, and make predictions based on experimental or theoretical probability of independent or dependent events.	MPA-112	Constructing Sample Spaces for Compound Events (Dependent and Independent)
		MPA-113	Finding the Probability of Compound Events Through Experimentation
		MPA-114	Finding the Odds of Events and Experimental Probability from a Math Model
		MM1-235	Finding Experimental Probability

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Grade 7 Florida Mathematics Content Standards document adopted by the Florida Department of Education on September 18, 2007.