



Grade 7 Correlation to Content Standards 2008

	HCPS III	I CAN Learn [®] Lesson #	I CAN Learn [®] Lesson Title
Number and Operations			
MA.7.1.1	Solve problems using fractions, decimals, and percents	Throughout	Standard is demonstrated throughout courseware. For examples, see the following lessons:
		MPA-003	Using Four-Step Plan for Problem Solving
		MPA-116	Solving Real-Life Problems by Using Guess-and-Check and Working Backwards
		MPA-023	Rounding Quotients Involving Decimals (money problems)
		MM1-320	Performing Mathematical Operations with Decimal Numbers in Application Problems
MA.7.1.2	Identify situations that require the use of large numbers and represent them using scientific notation	MM1-350	Identifying and Using Scientific Notation to Express Large Numbers
		MPA-021	Converting Between Standard and Scientific Notation
MA.7.1.3	Describe and solve situations represented by integers and absolute value	MM1-570	Identifying Integers and Absolute Value
		MM1-575	Comparing and Ordering Integers
MA.7.1.4	Apply number theory concepts to solve problems	MPA-024	Using Divisibility Rules
		MPA-025	Identifying Prime and Composite Numbers
		MPA-026	Using Prime Factorization
		MPA-027	Finding the Greatest Common Factor
		MPA-030	Finding Least Common Multiple of Two or More Numbers
MA.7.2.1	Describe situations involving arithmetic operations with integers	MPA-117	Modeling Integer Arithmetic Using Cups and Counters
MA.7.2.2	Apply the order of operations when calculating with rational number, excluding exponents	MM1-080	Identifying the Order of Operations Using Multiplication, Addition, and Subtraction
MA.7.2.3	Apply the inverse relationship between addition and subtraction, and between multiplication and division, to solve one-step equations	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-054	Solving One-Step Equations with Integers Using all Four Operations
		MPA-040	Solving One-Step Equations with Decimals Using All Four Operations
MA.7.3.1	Add, subtract, multiply, and divide 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-053	Adding, Subtracting, Multiplying, and Dividing Integers
		MPA-117	Modeling Integer Arithmetic Using Cups and Counters
MA.7.3.2	Determine the reasonableness of a solution by comparing the answer to an estimate	MPA-006	Determining Reasonableness of Answers and Appropriate Method of Computation

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Measurement			
MA.7.4.1	Determine how measurements, such as perimeter and area, of common shapes (e.g., squares, rectangles, parallelograms, triangles, circles) are affected when one of the attributes is changed in some way	MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
MA.7.4.2	Uses ratios and proportions to relate a scale drawing to the actual object	MPA-110	Solving Problems Using Proportions, Scale Drawings, Models, and Maps
MA.7.4.3	Use known measurements (e.g., radius) to calculate desired measurements (e.g., circumference and area) of circles	MPA-070	Finding the Circumference of a Circle
		MPA-071	Finding the Area of a Circle
Geometry and Spatial Sense			
MA.7.5.1	Apply the concept of similarity to solve problems	MPA-121	Identifying Similar and Congruent Polygons Using Proportions
		MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
MA.7.6.1	Describe changes in size between a given figure and its dilation	MPA-120	Applying Dilations in the Coordinate Plane
MA.7.8.1	Use coordinate geometry to determine the change in size of a figure that is dilated by a scale factor	MPA-120	Applying Dilations in the Coordinate Plane
Patterns, Functions, and Algebra			
MA.7.9.1	Create a pattern or function for a rule given in symbolic form	MPA-104	Recognizing Patterns
		MPA-270	Generating Algebraic Expressions from Patterns of Models
MA.7.9.2	Describe multi-step functions using words and symbols when given a table of "input" and "output" values and use the rule for the function to determine other input and output values	MPA-103	Distinguishing Between Relations and Functions
		MPA-135	Determining the Slope of a Line
MA.7.10.1	Analyze the relationship among tables, graphs (including graphing technology when available), and equations of linear functions, paying particular attention to the meaning of intercept and slope	MPA-140	Examining Linear Equations in Slope-Intercept Form
		MPA-142	Solving Problems With Linear Functions and Direct Variation
MA.7.10.2	Use symbolic algebra to represent situations involving linear relationships	MPA-125	Formulating a Possible Problem Situation Given an Equation
		MPA-142	Solving Problems With Linear Functions and Direct Variation
MA.7.10.3	Solves linear equations and inequalities with one variable using algebraic methods, manipulatives, or models	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-054	Solving One-Step Equations with Integers Using all Four Operations
		MPA-040	Solving One-Step Equations with Decimals Using All Four Operations
		MM1-641	Graphing the Solution to an Algebraic Equation
		MPA-109	Solving and Graphing Linear Inequalities on a Number Line
		MPA-118	Modeling Integer Arithmetic Using Algebra Tiles
Data Analysis, Statistics, and Probability			
MA.7.11.1	Design a study, collect data, and select the appropriate representation (line graph, bar graph, circle graph, histogram, stem and leaf plot, box and whisker plot) to display the data	MM1-390	Understanding Data in Bar Graphs, Line Graphs, and Stem-and-Leaf Plots
		MM1-400	Interpreting Double Bar Graphs
		MM1-405	Interpreting and Constructing Circle Graphs
		MPA-131	Interpreting and Creating Histograms
		MM1-435	Using Pictographs, Bar Graphs and Line Graphs to Solve Problems
		MM1-430	Using Graphs to Solve Problems
MA.7.12.1	Relate the spread of a data set to a box-and-whisker plot	MM1-410	Interpreting Box-and-Whisker Plots

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MA.7.13.1	Formulate new questions that arise from previous conclusions or conjectures and plan a new study to answer them	MPA-098	Making Predictions from Graphs and Choosing the Correct Graph
		MPA-099	Recognizing Misleading Statistics and Graphs
		MPA-840	Interpreting Data
MA.7.14.1	Relate theoretical probability to experimental results	MM1-235	Finding Experimental Probability

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

HGM - Geometry (New course in development)

Note: Standards were taken from the 2007 Hawaii Content and Performance Standards for Mathematics – Grade 7 document adopted by the Hawaiian State Board of Education in 2007.