



7th Grade Correlation to Core Curriculum

	Core Curriculum for Grade 7 Mathematics	I CAN Learn® Lesson #	I CAN Learn® Lesson Title
NUMBER AND OPERATIONS			
1.1.a	Demonstrate multiple ways to represent whole numbers, decimals, fractions, percents, and integers using models and real-life examples.	<i>Objective demonstrated throughout program. For examples see:</i>	
		MPA-001	Identifying, Comparing, and Ordering Whole Numbers Through Billions
		MPA-117	Modeling Integer Arithmetic Using Cups and Counters
		MPA-015	Identifying the Place Value of Decimals Through Thousandths
		MPA-122	Modeling Multiplication and Division of Decimals
		MPA-123	Modeling Multiplication and Division of Fractions
		MPA-081	Converting Fractions, Decimals, and Percents I
		MPA-082	Converting Fractions, Decimals, and Percents II
1.1.b	Simplify numerical expressions with whole number exponents using order of operations, and recognize that any positive number to the 0 power is 1.	MPA-041	Writing Simple Algebraic Expressions from Phrases
		HA1-060	Evaluating Numerical Expressions Using the Order of Operations
		MPA-013	Using Powers and Exponents in Expressions
1.1.c	Represent numbers greater than one using scientific notation.	MPA-021	Converting Between Standard and Scientific Notation
1.1.d	Select the most appropriate form of a rational number for a given context.	<i>Objective demonstrated throughout program. For examples see:</i>	
		MPA-023	Rounding Quotients Involving Decimals
		MPA-031	Comparing and Ordering Fractions and Decimals
		MPA-126	Solving Real-World Problems Involving Sales Tax
1.2.a	Identify, read, and locate rational numbers on a number line.	MPA-031	Comparing and Ordering Fractions and Decimals
1.2.b	Compare pairs of rational numbers in different forms.	MM1-602	Comparing and Ordering Rational Numbers
1.2.c	Order rational numbers with and without a number line.	MPA-031	Comparing and Ordering Fractions and Decimals
1.3.a	Find equivalent forms for common fractions, decimals, percents, and ratios, including repeating or terminating decimals.	MPA-081	Converting Fractions, Decimals, and Percents I
		MPA-082	Converting Fractions, Decimals, and Percents II
		MPA-124	Classifying Numbers in the Real Number System
1.3.b	Predict the effect of operating with fractions, decimals, percents, and integers as an increase or a decrease of the original value.	MPA-053	Adding, Subtracting, Multiplying, and Dividing Integers
		MPA-017	Rounding Decimals and Estimating Computations Using Decimals
		MPA-033	Estimating Computations with Fractions and Mixed Numbers
1.3.c	Recognize and use the identity properties of addition and multiplication, the multiplicative property of zero, the commutative and associative properties of addition and multiplication, and the distributive property of multiplication over addition.	MM1-025	Identifying the Properties of Addition
		MM1-045	Identifying and Using Properties of Multiplication to Solve Problems

	Core Curriculum for Grade 7 Mathematics	I CAN Learn® Lesson #	I CAN Learn® Lesson Title
		MPA-002	Adding, Subtracting, Multiplying, and Dividing Whole Numbers (includes properties)
		HA1-076	Basic Distributive Property
1.3.d	Recognize and use the inverse operations of adding and subtracting a fixed number, multiplying and dividing by a fixed number, and computing squares of whole numbers and taking square roots of perfect squares.	MM1-040	Using the Inverse Operations of Addition and Subtraction to Solve Problems Related to Number Sentences
		MM1-625	Solving Algebraic Equations Using the Inverse Operations of Addition and Subtraction
		MM1-630	Solving Algebraic Equations Using the Inverse Operations of Multiplication and Division
		MPA-013	Using Powers and Exponents in Expressions
		MPA-064	Finding Square Roots of Perfect Squares
1.4.a	Demonstrate that the fraction $\frac{a}{b}$ represents a divided by b .	MM1-065	Solving Division in Three Forms
1.4.b	Recognize percents as ratios based on 100 and decimals as ratios based on powers of 10.	MPA-081	Converting Fractions, Decimals, and Percents I
		MPA-020	Multiplying Decimals by Powers of Ten
1.4.c	Extend the multiplication of whole numbers to multiplication of fractions using area models, measurement models, and the number line.	MPA-123	Modeling Multiplication and Division of Fractions
		MPA-036	Multiplying Fractions and Mixed Numbers and Simplifying
1.4.d	Compare the division of whole numbers to the division of fractions using area or set models, the number line, and missing factors.	MPA-123	Modeling Multiplication and Division of Fractions
		MPA-037	Dividing Fractions and Mixed Numbers and Simplifying
1.5.a	Compute fluently using all four operations with integers and positive fractions and decimals.	MPA-053	Adding, Subtracting, Multiplying, and Dividing Integers
		MPA-054	Solving One-Step Equations with Integers Using all Four Operations
		MPA-034	Adding and Subtracting Fractions
		MPA-035	Adding and Subtracting Mixed Numbers with Unlike Denominators
		MPA-036	Multiplying Fractions and Mixed Numbers and Simplifying
		MPA-037	Dividing Fractions and Mixed Numbers and Simplifying
		MPA-038	Solving One-Step Equations with Fractions Using Addition and Subtraction
		MPA-039	Solving One-Step Equations with Fractions Using Multiplication and Division
		MPA-018	Adding and Subtracting Decimals
		MPA-019	Multiplying Decimals
		MPA-020	Multiplying Decimals by Powers of Ten
		MPA-119	Dividing Decimals
		MPA-040	Solving One-Step Equations with Decimals Using All Four Operations
1.5.b	Solve problems using factors, multiples, prime factorization, relatively prime numbers, and common divisibility rules.	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-028	Reducing Fractions to Lowest Terms/Simplest Form
		MPA-030	Finding Least Common Multiple of Two or More Numbers
1.5.c	Solve application problems involving rational numbers.	Throughout	
1.5.d	Determine if an answer is reasonable using estimation.	MPA-006	Determining Reasonableness of Answers and Appropriate Method of Computation
PROPORTIONAL REASONING			
2.1.a	Solve ratio and rate problems using informal methods involving multiplication and division.	MPA-155	Comparing and Converting Rates
2.1.b	Solve percent problems using ratio and proportion, including problems involving discounts, interest, taxes, tips, and percent increase or decrease.	MPA-126	Solving Real-World Problems Involving Sales Tax
		MPA-127	Solving Real-World Problems Involving Discounts
		MPA-128	Solving Real-World Problems Involving Simple Interest

	Core Curriculum for Grade 7 Mathematics	I CAN Learn® Lesson #	I CAN Learn® Lesson Title
2.1.c	Solve problems involving proportions, rates, and measures.	MPA-087	Finding Percent Increase and Decrease
		MPA-078	Expressing Ratios as Fractions and Determining Equivalency
		MPA-079	Unit rates
		MPA-080	Solving Proportions
		MPA-110	Solving Problems Using Proportions, Scale Drawings, Models, and Maps
		MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
2.2.a	Convert from one unit of measurement to an equivalent unit of measurement in the same system using a given conversion factor.	MPA-155	Comparing and Converting Rates
		MPA-061	Converting Metric Units of Length, Capacity, and Mass
2.2.b	Understand that in a proportional relationship, all dimensions change by the same scale factor.	MPA-062	Converting Units in Customary System
		MPA-120	Applying Dilations in the Coordinate Plane
2.2.c	Create and interpret scale drawings and approximate distance on maps using proportions.	MPA-155	Comparing and Converting Rates
		MPA-110	Solving Problems Using Proportions, Scale Drawings, Models, and Maps
ALGEBRA			
3.1.a	Write a variable expression to identify pattern relationships, and use those expressions to make predictions.	MPA-270	Generating Algebraic Expressions from Patterns of Models
3.1.b	Translate verbal expressions into algebraic expressions.	MPA-041	Writing Simple Algebraic Expressions from Phrases
3.1.c	Simplify and evaluate algebraic expressions.	MPA-014	Evaluating Expressions for Given Variables
3.1.d	Show that performing the same operation on both sides of an equation will produce an equivalent equation.	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
3.1.e	Solve single-variable linear equations and inequalities of the form $ax + b = c$, $ax + b < c$, or $ax + b > c$.	MPA-100	Solving Two-Step Equations
		MPA-101	Solving Equations by Combining Like Terms
		MPA-109	Solving and Graphing Linear Inequalities on a Number Line
3.2.a	Identify integer coordinates when given the graph of a point on a rectangular coordinate system.	MPA-046	Graphing Points on a Coordinate Plane
3.2.b	Graph ordered pairs of integers on a rectangular coordinate system.	MPA-046	Graphing Points on a Coordinate Plane
3.2.c	Model real-world problems using graphs, tables, equations, manipulatives, and pictures.	MPA-125	Formulating a Possible Problem Situation Given an Equation
		MPA-142	Solving Problems With Linear Functions
GEOMETRY AND MEASUREMENT			
4.1.a	Draw, label, and describe relationships among line segments, rays, lines, parallel lines, and perpendicular lines, including midpoint of a line segment.	MPA-056	Classifying Angles
		MPA-057	Identifying and Applying Supplementary and Complementary Angles
		MPA-105	Determining the Measure of Angles Made by Parallel Lines and a Transversal
4.1.b	Draw, label, and describe relationships among vertical, adjacent, complementary, and supplementary angles.	MPA-057	Identifying and Applying Supplementary and Complementary Angles
		MPA-105	Determining the Measure of Angles Made by Parallel Lines and a Transversal
4.1.c	Draw, label, and describe attributes of angles, triangles, and quadrilaterals.	MPA-056	Classifying Angles
		MPA-058	Identifying Polygons
		MPA-059	Classifying Triangles and Quadrilaterals
4.2.a	Estimate metric and customary measures using everyday objects and comparisons.	MPA-130	Developing a Sense of Relative Sizes of Measures

	Core Curriculum for Grade 7 Mathematics	I CAN Learn® Lesson #	I CAN Learn® Lesson Title
4.2.b	Measure length, area, volume, and angles to appropriate levels of precision.	MPA-055	Finding the Perimeter of a Figure
		MPA-067	Finding the Area of Rectangles and Parallelograms
		MPA-069	Finding the Area of Triangles and Trapezoids
		MPA-070	Finding the Circumference of a Circle
		MPA-071	Finding the Area of a Circle
		MPA-068	Finding the Area of Irregular Figures
		MPA-160	Plotting Polygons and Finding the Area
		MPA-073	Finding the Surface Area of Rectangular Prisms
		MPA-074	Finding the Surface Area of Cylinders
		MPA-075	Finding the Volume of Rectangular Prisms
		MPA-076	Finding the Volume of Cylinders
		MPA-115	Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models
		MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
4.2.c	Calculate the measurement of everyday objects using formulas for perimeters and areas of triangles and quadrilaterals, and circumferences and areas of circles	MPA-055	Finding the Perimeter of a Figure
		MPA-069	Finding the Area of Triangles and Trapezoids
		MPA-070	Finding the Circumference of a Circle
		MPA-071	Finding the Area of a Circle
4.2.d	Calculate the measurement of everyday objects using formulas for surface area and volume of right triangular and rectangular prisms and cylinders.	MPA-073	Finding the Surface Area of Rectangular Prisms
		MPA-074	Finding the Surface Area of Cylinders
		MPA-075	Finding the Volume of Rectangular Prisms
		MPA-076	Finding the Volume of Cylinders
		MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids
		MPA-115	Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models
DATA ANALYSIS AND PROBABILITY			
5.1.a	Write the results of a probability experiment as a fraction, ratio, or decimal, between zero and one, or as a percent between zero and one hundred, inclusive.	MPA-090	Finding the Probability of Simple Real-Life Events
5.1.b	Compare experimental results with theoretical probability.	MM1-235	Finding Experimental Probability
		MPA-114	Finding the Odds of Events and Experimental Probability from a Math Model
5.1.c	Compare individual, small group, and large group results of a probability experiment.	MPA-114	Finding the Odds of Events and Experimental Probability from a Math Model
5.2.a	Display data using tables, scatter plots, and circle graphs.	MPA-129	Choosing Appropriate Scales and Intervals for Data
		MPA-132	Interpreting and Creating Scatterplots
		MPA-092	Reading and Interpreting Bar, Line, and Circle Graphs
5.2.b	Compare two similar sets of data on the same graph.	MPA-098	Making Predictions from Graphs and Choosing the Correct Graph
5.2.c	Compare two different kinds of graphs representing the same set of data.	MPA-098	Making Predictions from Graphs and Choosing the Correct Graph
5.2.d	Propose and justify inferences and predictions based on data.	MPA-099	Recognizing Misleading Statistics and Graphs

MM1-Fundamentals of Mathematics
MPA- Pre-Algebra
HA1-Algebra 1

Note: Standards were taken from the Utah Secondary Mathematics Core Curriculum document adopted by the Utah State Board of Education in 2007.