



6th Grade Correlation to Mathematics Learning Standards

	Mathematics Curriculum Framework	I CAN Learn® Lesson #	I CAN Learn® Lesson Title
NUMBER SENSE AND OPERATIONS			
6.N.1	Read and write whole numbers to trillions	MM1-001	Identifying Place Value to the Billions
		MPA-001	Identifying, Comparing, and Ordering Whole Numbers Through Billions
6.N.2	Define and identify the commutative and associative properties of addition and multiplication	MM1-025	Identifying the Properties of Addition
		MM1-045	Identifying and Using Properties of Multiplication to Solve Problems
6.N.3	Define and identify the distributive property of multiplication over addition	MM1-045	Identifying and Using Properties of Multiplication to Solve Problems
6.N.4	Define and identify the identity and inverse properties of addition and multiplication	MM1-025	Identifying the Properties of Addition
		MM1-040	Using the Inverse Operations of Addition and Subtraction to Solve Problems Related to Number Sentences
		MM1-045	Identifying and Using Properties of Multiplication to Solve Problems
		MM1-595	Dividing Integers with Like and Unlike Signs
		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
6.N.5	Define and identify the zero property of multiplication	MM1-045	Identifying and Using Properties of Multiplication to Solve Problems
6.N.6	Understand the concept of rate	MM1-215	Identifying a Rate to Solve Problems
6.N.7	Express equivalent ratios as a proportion	MM1-210	Identifying and Writing Equal Ratios
		MM1-220	Writing and Forming Proportions
6.N.8	Distinguish the difference between rate and ratio	MM1-205	Writing a Ratio to Compare Two Objects
		MM1-215	Identifying a Rate to Solve Problems
6.N.9	Solve proportions using equivalent fractions	MM1-225	Solving Proportions
6.N.10	Verify the proportionality using the product of the means equals the product of the extremes	MM1-225	Solving Proportions
6.N.11	Read, write, and identify percents of a whole (0% to 100%)	MM1-360	Expressing Percent as a Ratio
6.N.12	Solve percent problems involving percent, rate, and base	MPA-083	Finding Number Given Percent and Total
		MPA-084	Finding Percent Given Number and Total
		MPA-085	Finding Total Given Number and Percent
6.N.13	Define absolute value and determine the absolute value of rational numbers (including positive and negative)	MM1-570	Identifying Integers and Absolute Value
6.N.14	Locate rational numbers on a number line (including positive and negative)	MM1-570	Identifying Integers and Absolute Value
		MM1-575	Comparing and Ordering Integers
		MPA-031	Comparing and Ordering Fractions and Decimals
		MPA-044	Finding Opposite and Absolute Values of Integers
		MPA-045	Comparing and Ordering Integers
6.N.15	Order rational numbers (including positive and negative)	MM1-110	Comparing and Ordering Fractions with Like Denominators

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		MM1-135	Comparing and Ordering Fractions with Like and Unlike Denominators
		MM1-285	Ordering Decimals According to the Tenths, Hundredths and Thousandths
		MM1-575	Comparing and Ordering Integers
6.N.16	Add and subtract fractions with unlike denominators	MM1-145	Adding and Subtracting Fractions with Like and Unlike Denominators
6.N.17	Multiply and divide fractions with unlike denominators	MM1-165	Multiplying Fractions
		MM1-170	Multiplying Fractions by Simplifying the Problem
		MM1-180	Dividing Fractions
		MM1-185	Dividing Mixed Numbers
6.N.18	Add, subtract, multiply, and divide mixed numbers with unlike denominators	MM1-150	Adding Mixed Numbers with Like Denominators
		MM1-155	Subtracting Mixed Numbers with Like Denominators
		MM1-160	Adding and Subtracting Mixed Numbers with Unlike Denominators
		MM1-175	Multiplying Mixed Numbers
		MM1-185	Dividing Mixed Numbers
6.N.19	Identify the multiplicative inverse (reciprocal) of a number	MM1-180	Dividing Fractions
6.N.20	Represent fractions as terminating or repeating decimals	MM1-358	Converting Fractions and Mixed Numbers with Denominators of Powers of Ten to Decimals
		MM1-365	Converting Decimals to Fractions and Fractions to Decimals
		MM1-380	Converting Fractions to Decimals and Percents
6.N.21	Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)	MM1-115	Writing Fractions in Simplest Form
		MM1-358	Converting Fractions and Mixed Numbers with Denominators of Powers of Ten to Decimals
		MM1-360	Expressing Percent as a Ratio
		MM1-365	Converting Decimals to Fractions and Fractions to Decimals
		MM1-370	Converting Decimals to Percents and Percents to Decimals
		MM1-375	Converting Fractions to Percents and Percents to Fractions
		MM1-380	Converting Fractions to Decimals and Percents
6.N.22	Evaluate numerical expressions using order of operations (may include exponents of two and three)	MM1-080	Identifying the Order of Operations Using Multiplication, Addition, and Subtraction
		MM1-085	Identifying the Order of Operations for Multiplication, Addition, and Subtraction Using Parentheses and Exponents
		MPA-008	Order of Operations
6.N.23	Represent repeated multiplication in exponential form	MM1-017	Identifying Exponential and Standard Form of a Number
6.N.24	Represent exponential form as repeated multiplication	MM1-017	Identifying Exponential and Standard Form of a Number
6.N.25	Evaluate expressions having exponents where the power is an exponent of one, two, or three	MM1-017	Identifying Exponential and Standard Form of a Number
		MPA-013	Using Powers and Exponents in Expressions
6.N.26	Estimate a percent of quantity (0% to 100%)	MPA-083	Finding Number Given Percent and Total
		MPA-084	Finding Percent Given Number and Total
		MPA-085	Finding Total Given Number and Percent
6.N.27	Justify the reasonableness of answers using estimation (including rounding)	MM1-030	Estimating Sums and Differences
		MM1-060	Estimating Products
		MM1-070	Estimating Quotients
		MM1-305	Estimating Products by Rounding to the Nearest Whole Number
		MM1-340	Rounding Quotients
		MPA-004	Using Rounding to Estimate
		MPA-005	Estimating Products and Quotients Using Patterns
		MPA-006	Determining Reasonableness of Answers and Appropriate Method of Computation
		MPA-017	Rounding Decimals and Estimating Computations Using Decimals
		MPA-023	Rounding Quotients Involving Decimals
		MPA-033	Estimating Computations with Fractions and Mixed Numbers
		MPA-133	Distinguishing Between Exact and Approximate Answers

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ALGEBRA			
6.A.1	Translate two-step verbal expressions into algebraic expressions	MM1-600 MPA-041	Introducing Variables in Algebra Writing Simple Algebraic Expressions from Phrases
6.A.2	Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)	MM1-600	Introducing Variables in Algebra
6.A.3	Translate two-step verbal sentences into algebraic equations	MPA-014	Evaluating Expressions for Given Variables
		MM1-615	Translating Words into Algebra
		MPA-012	Solving One-Step Equations of Whole Numbers Using All Operations
6.A.4	Solve and explain two-step equations involving whole numbers using inverse operations	MPA-042	Solving Problems Using an Equation
		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-009	Solving One-Step Equations Using a Box
		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
6.A.5	Solve simple proportions within context	MPA-012	Solving One-Step Equations of Whole Numbers Using All Operations
		MPA-042	Solving Problems Using an Equation
		MM1-225	Solving Proportions
6.A.6	Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)	MM1-505	Determining the Perimeter of Any Polygon
		MM1-510	Determining the Area of Parallelograms and Triangles
		MM1-515	Defining a Circle
		MM1-520	Finding the Surface Area of a Rectangular Prism
		MM1-525	Finding the Volume of Rectangular and Triangular Prisms
		MM1-530	Finding the Volume of a Cylinder
		MM1-605	Converting Fahrenheit and Celsius
		MM1-610	Finding Simple Interest
		MM1-635	Calculating Distance, Rate, or Time by Solving Equations
		MPA-077	Solving Problems Using a Formula
GEOMETRY			
6.G.1	Calculate the length of corresponding sides of similar triangles, using proportional reasoning	MM1-475	Using Proportions to Solve for Unknown Lengths of Sides of Similar Figures
6.G.2	Determine the area of triangles and quadrilaterals (squares, rectangles, rhombi, and trapezoids) and develop formulas	MPA-121	Identifying Similar and Congruent Polygons Using Proportions
		MM1-510	Determining the Area of Parallelograms and Triangles
		MPA-067	Finding the Area of Rectangles and Parallelograms
6.G.3	Use a variety of strategies to find the area of regular and irregular polygons	MPA-069	Finding the Area of Triangles and Trapezoids
		MM1-510	Determining the Area of Parallelograms and Triangles
		MPA-067	Finding the Area of Rectangles and Parallelograms
		MPA-069	Finding the Area of Triangles and Trapezoids
6.G.4	Determine the volume of rectangular prisms by counting cubes and develop the formula	MPA-068	Finding the Area of Irregular Figures
		MM1-525	Finding the Volume of Rectangular and Triangular Prisms
		MPA-075	Finding the Volume of Rectangular Prisms
6.G.5	Identify radius, diameter, chords and central angles of a circle	MM1-515	Defining a Circle
6.G.6	Understand the relationship between the diameter and radius of a circle	MM1-515	Defining a Circle
		MPA-070	Finding the Circumference of a Circle
		MPA-071	Finding the Area of a Circle
6.G.7	Determine the area and circumference of a circle, using the appropriate formula	MM1-515	Defining a Circle

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		MPA-070	Finding the Circumference of a Circle
		MPA-071	Finding the Area of a Circle
6.G.8	Calculate the area of a sector of a circle, given the measure of a central angle and the radius of the circle	Future Development	
6.G.9	Understand the relationship between the circumference and the diameter of a circle	MM1-515	Defining a Circle
		MPA-070	Finding the Circumference of a Circle
6.G.10	Identify and plot points in all four quadrants	MM1-642	Exploring the Coordinate Plane and Graphing Ordered Pairs
6.G.11	Calculate the area of basic polygons drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths)	MPA-160	Area of Polygons in the Coordinate Plane
MEASUREMENT			
6.M.1	Measure capacity and calculate volume of a rectangular prism	MM1-525	Finding the Volume of Rectangular and Triangular Prisms
		MPA-075	Finding the Volume of Rectangular Prisms
6.M.2	Identify customary units of capacity (cups, pints, quarts, and gallons)	MM1-540	Converting Customary Unit of Measurement for Capacity and Weight
6.M.3	Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)	MM1-540	Converting Customary Unit of Measurement for Capacity and Weight
6.M.4	Identify metric units of capacity (liter and milliliter)	MM1-550	Converting Metric Units of Measurement for Mass and Capacity
6.M.5	Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)	MM1-550	Converting Metric Units of Measurement for Mass and Capacity
6.M.6	Determine the tool and technique to measure with an appropriate level of precision: capacity	MPA-130	Developing a Sense of Relative Sizes of Measures
6.M.7	Estimate volume, area, and circumference (see figures identified in geometry strand)	MM1-510	Determining the Area of Parallelograms and Triangles
		MM1-515	Defining a Circle
		MM1-525	Finding the Volume of Rectangular and Triangular Prisms
		MPA-067	Finding the Area of Rectangles and Parallelograms
		MPA-068	Finding the Area of Irregular Figures
		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-075	Finding the Volume of Rectangular Prisms
6.M.8	Justify the reasonableness of estimates	MPA-006	Determining Reasonableness of Answers and Appropriate Method of Computation
6.M.9	Determine personal references for capacity	MPA-130	Developing a Sense of Relative Sizes of Measures
STATISTICS AND PROBABILITY			
6.S.1	Develop the concept of sampling when collecting data from a population and decide the best method to collect data for a particular question	MM1-385	Collecting Data
6.S.2	Record data in a frequency table	MPA-131	Interpreting and Creating Histograms
		MPA-129	Choosing Appropriate Scales and Intervals for Data (an Introduction)
		HA1-545	Making a Frequency Distribution Table
6.S.3	Construct Venn diagrams to sort data	HA1-886	Unions and Intersections of Sets Using Venn Diagrams
6.S.4	Determine and justify the most appropriate graph to display a given set of data (pictograph, bar graph, line graph, histogram, or circle graph)	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
		MM1-425	Classifying Information from a Mathematical Story
		MM1-430	Using Graphs to Solve Story Problems
		MM1-435	Using Pictographs, Bar Graphs and Line Graphs to Solve Problems
		MPA-131	Interpreting and Creating Histograms
6.S.5	Determine the mean, mode and median for a given set of data	MM1-415	Defining and Calculating the Range and the Mean

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6.S.6	Determine the range for a given set of data	MM1-420	Defining and Calculating the Median and the Mode
6.S.7	Read and interpret graphs	MM1-415	Defining and Calculating the Range and the Mean
		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
		MM1-425	Classifying Information from a Mathematical Story
		MM1-430	Using Graphs to Solve Story Problems
		MM1-435	Using Pictographs, Bar Graphs and Line Graphs to Solve Problems
		MPA-131	Interpreting and Creating Histograms
6.S.9	List possible outcomes for compound events	MPA-112	Constructing Sample Spaces for Compound Events (Dependent and Independent)
6.S.10	Determine the probability of dependent events	MPA-090	Finding the Probability of Simple Real-Life Events
		MPA-113	Finding the Probability of Compound Events Through Experimentation
6.S.11	Determine the number of possible outcomes for a compound event by using the fundamental counting principle and use this to determine the probabilities of events when the outcomes have equal probability	MPA-091	Finding the Number of Combinations of a Set of Objects

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the New York Mathematics Core Curriculum MST Standard 3 Pre-kindergarten - Grade 12 document adopted by the New York State Board of Regents and revised in March 2005.