



	Mathematics Curriculum Framework	I CAN Learn[®] Lesson #	I CAN Learn[®] Lesson Title
5.1	NUMBER AND OPERATIONS		
5.1.1.A	*read, write and compare whole numbers less than 1,000,000, <u>unit fractions</u> and decimals to hundredths (including location on the number line)	MM1-001	Identifying Place Value to the Billions
		MM1-275	Comparing Decimal Numbers
		MM1-280	Identifying and Writing Decimals to the Hundredths and Thousandths
		MM1-110	Comparing and Ordering Fractions with Like Denominators
		MM1-135	Comparing and Ordering Fractions with Like and Unlike Denominators
5.1.1.B	recognize and generate equivalent forms of <u>commonly used</u> fractions and decimals	MM1-115	Writing Fractions in Simplest Form
		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
		MPA-031	Comparing and Ordering Fractions and Decimals
5.1.1.C	*recognize equivalent representations for the same number and generate them by <u>decomposing and composing numbers</u> ,	MM1-095	Expressing a Number as a Product of Prime Numbers
		MM1-115	Writing Fractions in Simplest Form
		MM1-120	Identifying Proper and Improper Fractions
		MM1-125	Writing Mixed Numbers as Improper Fractions
		MM1-127	Writing Remainders as Fractions
		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
		MM1-370	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
5.1.1.D	*describe numbers according to their characteristics, including whole number <u>common factors</u> and multiples, <u>prime or composite</u> , and <u>square numbers</u>	MM1-017	Identifying Exponential and Standard Form of a Number
		MM1-088	Applying the Divisibility Rules for 2, 3, 4, 5, 6, 9 and 10
		MM1-090	Identifying Prime and Composite Numbers
5.1.2.A	represent and recognize division using various models, including <u>quotative and partitive</u>	MM1-065	Solving Division in Three Forms
5.1.2.B	*describe the effects of addition and subtraction on fractions and decimals	MM1-145	Adding and Subtracting Fractions with Like and 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
		MM1-300	Adding and Subtracting Decimals
5.1.3.A	*describe a mental strategy used to compute a given division problem, where the quotient is a multiple of 10 and the divisor is a 1-digit number (e.g., 350 / 7)	MM1-075	Dividing with Remainders and Zeros in the Quotient
5.1.3.B	<u>demonstrate fluency</u> with efficient procedures for adding and subtracting decimals and fractions (with unlike denominators) and division of whole numbers	MM1-145	Adding and Subtracting Fractions with Like and Unlike Denominators
		MM1-150	Adding Mixed Numbers with Like Denominators

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		MM1-155	Subtracting Mixed Numbers with Like Denominators
		MM1-160	Adding and Subtracting Mixed Numbers with Unlike Denominators
		MM1-300	Adding and Subtracting Decimals
		MM1-065	Solving Division in Three Forms
		MM1-075	Dividing with Remainders and Zeros in the Quotient
5.1.3.C	apply and describe the strategy used to compute a division problem up to a 3- digit by 2-digit and addition and subtraction of fractions and decimals	MM1-145	Adding and Subtracting Fractions with Like and 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
		MM1-300	Adding and Subtracting Decimals
		MM1-065	Solving Division in Three Forms
		MM1-075	Dividing with Remainders and Zeros in the Quotient
5.1.3.D	estimate and justify products, and quotients of whole numbers and sums and differences of decimals and fractions	MM1-060	Estimating Products
		MM1-070	Estimating Quotients
		MM1-290	Rounding Decimals to the Nearest Whole Number
		MM1-295	Rounding Decimals to the Nearest Tenth, Hundredth and Thousandth
		MM1-300	Adding and Subtracting Decimals
		MM1-145	Adding and Subtracting Fractions with Like and 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
5.2	ALGEBRAIC RELATIONSHIPS		
5.2.1.A	make and describe <u>generalizations</u> about geometric and numeric patterns	MM1-020	Identifying and Finding Number Patterns Using Whole Numbers
5.2.1.B	represent and analyze patterns using words, tables and graphs	MM1-020	Identifying and Finding Number Patterns Using Whole Numbers
		MM1-651	Using Function Rules
5.2.2.A	using all operations, represent a mathematical situation as an <u>expression</u> or number sentence using a letter or symbol	MM1-600	Introducing Variables in Algebra
		MM1-615	Translating Words into Algebra
5.2.2.B	*use the <u>commutative, distributive and associative properties</u> for fractions and decimals	MM1-145	Adding and Subtracting Fractions with Like and Unlike Denominators
		MM1-300	Adding and Subtracting Decimals
5.2.3.A	<u>model</u> problem situations and draw conclusions, using representations such as graphs, tables or number sentence	MM1-195	Identifying the Mathematical Question Given in a Word Problem
		MM1-320	Performing Mathematical Operations with Decimal Numbers in Application Problems
		MM1-355	Solving Multiple-Step Problems
		MM1-425	Classifying Information from a Mathematical Story
		MM1-430	Using Graphs to Solve Story Problems
5.2.4.A	*identify, model and describe situations with constant or varying rates of change	MM1-651	Using Function Rules
5.3	GEOMETRIC AND SPATIAL RELATIONSHIPS		
5.3.1.A	*analyze and classify 2- and 3-dimensional shapes by describing the <u>attributes</u>	MM1-455	Identifying Basic Terms Used in Geometry
		MM1-465	Naming and Classifying Polygons by Characteristics
		MM1-480	Identifying and Labeling Triangles According to Their Sides and Angles
		MPA-072	Identifying 3-D Figures

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5.3.1.C	predict and justify the results of subdividing, combining and <u>transforming shapes</u>	MM1-500	Using Translations, Rotations and Reflections to Transform Shapes
		MPA-060	Determining Which Figures Tessellate
5.3.2.A	*use <u>coordinate systems</u> to specify locations, describe paths and find the distance between points along horizontal and vertical lines	MM1-643	Plotting Polygons and Calculating the Perimeter
5.3.3.A	*predict, draw and describe the results of <u>sliding/ translating, flipping/ reflecting and turning/ rotating around a center point</u> of a polygon	MM1-500	Using Translations, Rotations and Reflections to Transform Shapes
5.3.3.C	identify polygons and designs with <u>rotational symmetry</u>	MPA-180	Examining Line and Rotational Symmetry
5.3.4.A	given a <u>net of a prism</u> or cylinder, identify the 3-dimensional shape	MPA-106	Identifying a Solid Figure From a Net
5.4	MEASUREMENT		
5.4.1.A	*identify and justify the unit of measure for area (customary and metric)	MM1-510	Determining the Area of Parallelograms and Triangles
5.4.1.B	identify the equivalent weights and equivalent capacities within a system of measurement	MM1-540	Converting Customary Unit of Measurement for Capacity and Weight
		MM1-550	Converting Metric Units of Measurement for Mass and Capacity
5.4.2.C	determine volume by finding the total number of the same size units needed to fill a space without gaps or overlaps	MM1-525	Finding the Volume of Rectangular and Triangular Prisms
5.4.2.E	convert from one unit to another within a system of linear measurement (customary and metric)	MM1-535	Converting Customary Units of Measurement for Length
		MM1-540	Converting Customary Units of Measurement for Capacity and Weight
		MM1-545	Converting Metric Units of Measurement for Length
		MM1-550	Converting Metric Units of Measurement for Mass and Capacity
5.5	DATA AND PROBABILITY		
5.5.1.A	evaluate data-collection methods	MM1-385	Collecting Data
5.5.1.C	*describe methods to collect, organize and represent <u>categorical</u> and <u>numerical</u> 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
5.5.2.A	compare related data sets	MM1-435	Using Pictographs, Bar Graphs and Line Graphs to Solve Problems
5.5.3.A	given a set of data make and justify predictions	MM1-430	Using Graphs to Solve Story Problems
5.5.4.A	*describe the degree of likelihood of events using such words as certain, equally likely and impossible	MM1-230	Finding the Probability of Simple Events
		MPA-090	Finding the Probability of Simple Real-Life Events

* - indicates that the expectation should be assessed at the local level.

MM1-Fundamentals of Mathematics

MPA-Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Missouri Grade-Level Expectations document, Version 2.0 adopted by the Missouri State Board of Education in March 2007 and updated April, 2008.