



6th Grade Correlation to Mathematics Course of Study

	Mathematics Curriculum Framework	Lesson Number	Lesson Title
NUMBER AND OPERATIONS			
6.1	Demonstrate computational fluency with addition, subtraction, multiplication, and division of decimals and fractions.		
	<ul style="list-style-type: none"> Comparing rational numbers written as fractions, decimals, mixed numbers, and percents 	MM1-110	Comparing and Ordering Fractions with Like Denominators
		MM1-135	Comparing and Ordering Fractions with Like and Unlike Denominators
		MM1-275	Comparing Decimal Numbers
		MM1-360	Expressing Percent as a Ratio
		MPA-016	Comparing and Ordering Decimals
		MPA-031	Comparing and Ordering Fractions and Decimals
	<ul style="list-style-type: none"> Converting fractions and mixed numbers to decimals and percents 	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
		MPA-029	Converting Fractions and Decimals
		MPA-032	Converting Improper Fractions and Mixed Numbers
		MPA-081	Converting Fractions, Decimals, and Percents I
		MPA-082	Converting Fractions, Decimals, and Percents II
	<ul style="list-style-type: none"> Converting terminating decimals and percents to fractions and mixed numbers 	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
		MPA-029	Converting Fractions and Decimals
		MPA-032	Converting Improper Fractions and Mixed Numbers
		MPA-081	Converting Fractions, Decimals, and Percents I
		MPA-082	Converting Fractions, Decimals, and Percents II
	<ul style="list-style-type: none"> Writing decimal numbers in expanded notation. For example, $52.37 = 52 + 2 + 3/10 + 7/100$. 	MM1-005	Writing Numbers in Expanded Form
		MM1-280	Identifying and Writing Decimals to the Hundredths and Thousandths
	<ul style="list-style-type: none"> Using prime factorizations 	MM1-095	Expressing a Number as a Product of Prime Numbers
		MPA-026	Using Prime Factorization
	<ul style="list-style-type: none"> Identifying prime and composite numbers 	MM1-090	Identifying Prime and Composite Numbers

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	• Using greatest common factor (GCF) to simplify fractions	MPA-025	Identifying Prime and Composite Numbers
		MM1-115	Writing Fractions in Simplest Form
	• Formulating algorithms using basic operations on fractions and decimals	MPA-028	Reducing Fractions to Lowest Terms/Simplest Form
		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
		MM1-165	Multiplying Fractions
		MM1-170	Multiplying Fractions by Simplifying the Problem
		MM1-175	Multiplying Mixed Numbers
		MM1-180	Dividing Fractions
		MM1-185	Dividing Mixed Numbers
		MM1-300	Adding and Subtracting Decimals
		MM1-310	Multiplying Decimals
		MM1-311	Using a One-Digit Divisor, Express the Remainder as a Decimal
		MM1-313	Using a Two-Digit Divisor, Express the Remainder as a Decimal
		MM1-315	Dividing Decimals by Whole Number Divisors
		MPA-018	Adding and Subtracting Decimals
		MPA-019	Multiplying Decimals
		MPA-020	Multiplying Decimals by Powers of Ten
		MPA-119	Dividing Decimals (an Introduction)
		MPA-022	Dividing Decimals
		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
	• Applying the distributive property to compute with fractions and decimals. For example, $4 \times (8\frac{1}{2}) = (4 \times 8) + (4 \times \frac{1}{2}) = 32 + 2 = 34$.	MM1-045	Identifying and Using Properties of Multiplication to Solve Problems
		MM1-145	Adding and Subtracting Fractions with Like and Unlike Denominators
		MM1-300	Adding and Subtracting Decimals
	• Using least common multiple (LCM) to add and subtract fractions with unlike denominators	MM1-145	Adding and Subtracting Fractions with Like and Unlike Denominators
		MM1-160	Adding and Subtracting Mixed Numbers with Unlike Denominators
		MPA-034	Adding and Subtracting Fractions
		MPA-035	Adding and Subtracting Mixed Numbers with Unlike Denominators
6.2	Solve problems involving decimals, percents, fractions, and proportions. For example, determining the sale price of a pair of jeans that regularly sells for \$25 to be \$22.50 if they are on sale at 10 percent off the regular price.	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-086	Solving Problems Using Percent
		MPA-087	Finding Percent Increase and Decrease
		MPA-088	Solving Real-World Problems Involving Percent
		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
	• Estimating with fractions and decimals	MM1-305	Estimating Products by Rounding to the Nearest Whole Number
		MPA-017	Rounding Decimals and Estimating Computations Using Decimals
		MPA-033	Estimating Computations with Fractions and Mixed Numbers

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ALGEBRA			
6.3	Solve problems using numeric and geometric patterns	MM1-020	Identifying and Finding Number Patterns Using Whole Numbers
		MPA-104	Recognizing Patterns
	<ul style="list-style-type: none"> Determining a verbal rule for a function given the input and output 	MM1-642	Exploring the Coordinate Plane and Graphing Ordered Pairs (Problem Sets of the Day)
GEOMETRY			
6.4	Identify two-dimensional and three-dimensional figures based on attributes, properties, and component parts.	MM1-465	Naming and Classifying Polygons by Characteristics
		MM1-480	Identifying and Labeling Triangles According to Their Sides and Angles
		MM1-515	Defining a Circle
		MPA-058	Identifying Polygons
		MPA-059	Classifying Triangles and Quadrilaterals
		MPA-072	Identifying 3-D Figures
		MPA-106	Identifying a Solid Figure From a Net
	<ul style="list-style-type: none"> Classifying quadrilaterals based on their attributes 	MM1-465	Naming and Classifying Polygons by Characteristics
		MPA-059	Classifying Triangles and Quadrilaterals
	<ul style="list-style-type: none"> Identifying line and rotational symmetries of polygons 	MM1-500	Using Translations, Rotations and Reflections to Transform Shapes
		MPA-180	Examining Line and Rotational Symmetry (Future release)
	<ul style="list-style-type: none"> Classifying triangles as right, obtuse, or acute 	MM1-480	Identifying and Labeling Triangles According to Their Sides and Angles
6.5	Plot coordinates on grids, graphs, and maps.	MM1-642	Exploring the Coordinate Plane and Graphing Ordered Pairs
		MPA-046	Graphing Points on a Coordinate Plane
	<ul style="list-style-type: none"> Identifying the coordinates of a point on the Cartesian plane 	MM1-642	Exploring the Coordinate Plane and Graphing Ordered Pairs
		MPA-046	Graphing Points on a Coordinate Plane
	<ul style="list-style-type: none"> Comparing parallel and perpendicular lines 	MM1-455	Identifying Basic Terms Used in Geometry
MEASUREMENT			
6.6	Classify angles as acute, obtuse, right, or straight.	MM1-460	Measuring and Classifying Angles
		MPA-056	Classifying Angles
	<ul style="list-style-type: none"> Estimating angle measures using 45 degrees, 90 degrees, 180 degrees, 270 degrees, or 360 degrees as referents 	MPA-056	Classifying Angles
	<ul style="list-style-type: none"> Measuring angles 	MM1-460	Measuring and Classifying Angles
6.7	Solve problems involving perimeter and area of parallelograms and rectangles.	MM1-505	Determining the Perimeter of Any Polygon
		MM1-510	Determining the Area of Parallelograms and Triangles
		MPA-055	Finding the Perimeter of a Figure
		MPA-067	Finding the Area of Rectangles and Parallelograms
	<ul style="list-style-type: none"> Estimating perimeter and area 	MPA-055	Finding the Perimeter of a Figure (Problem Sets of the Day)
		MPA-067	Finding the Area of Rectangles and Parallelograms (Problem Sets of the Day)
	<ul style="list-style-type: none"> Developing formulas to determine perimeter and area of parallelograms and rectangles 	MM1-505	Determining the Perimeter of Any Polygon
		MM1-510	Determining the Area of Parallelograms and Triangles
		MPA-055	Finding the Perimeter of a Figure
		MPA-067	Finding the Area of Rectangles and Parallelograms
6.8	Determine the distance between two points on a scale drawing or a map using proportional reasoning.	MM1-470	Using Ratios to Identify Similar Figures
		MM1-475	Using Proportions to Solve for Unknown Lengths of Sides of Similar Figures
		MPA-110	Solving Problems Using Proportions, Scale Drawings, Models, and Maps
		MPA-121	Identifying Similar and Congruent Polygons Using Proportions
	<ul style="list-style-type: none"> Using different forms of notation to symbolize ratios and rates 	MM1-360	Expressing Percent as a Ratio
		MPA-078	Expressing Ratios as Fractions and Determining Equivalency
		MPA-079	Unit rates

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6.9	Convert units of length, weight, or capacity within the same system (customary or metric).	MM1-535	Converting Customary Units of Measurement for Length
		MM1-540	Converting Customary Unit 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
		MPA-061	Converting Metric Units of Length, Capacity, and Mass
		MPA-062	Converting Units in Customary System
DATA ANALYSIS AND PROBABILITY			
6.10	Interpret information from bar graphs, line graphs, and circle graphs.	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
		MM1-435	Using Pictographs, Bar Graphs and Line Graphs to Solve Problems
		MPA-092	Reading and Interpreting Bar, Line, and Circle Graphs
6.11	Find the probability of a simple event.	MM1-230	Finding the Probability of Simple Events
		MPA-090	Finding the Probability of Simple Real-Life Events
	• Expressing probabilities as ratios, percents, and decimals	MM1-230	Finding the Probability of Simple Events
		MPA-090	Finding the Probability of Simple Real-Life Events

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Alabama Course of Study for 6th-8th Grade document adopted by the Alabama State Board of Education in 2003.