



7th Grade GPS Correlation

	Georgia Performance Standards	I CAN Learn [®] Lesson #	I CAN Learn [®] Lesson Title
M7N.	NUMBER AND OPERATIONS		
M7N1.	Students will understand the meaning of positive and negative rational numbers and use them in computation.		
	a. Find the absolute value of a number and understand it as the distance from zero on a number line.	MPA-045	Comparing and Ordering Integers
		MPA-044	Finding Opposite and Absolute Values of Integers
	b. Compare and order rational numbers, including repeating decimals.	MPA-045	Comparing and Ordering Integers
		MPA-016	Comparing and Ordering Decimals
		MPA-029	Converting Fractions and Decimals
		MPA-031	Comparing and Ordering Fractions and Decimals
	c. Add, subtract, multiply, and divide positive and negative rational numbers.	MPA-117	Modeling Integer Arithmetic Using Cups and Counters
		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-018	Adding and Subtracting Decimals
		MPA-019	Multiplying Decimals
		MPA-020	Multiplying Decimals by Powers of Ten
		MPA-119	Dividing Decimals
		MPA-122	Modeling Multiplication and Division of Decimals
		MPA-123	Modeling Multiplication and Division of Fractions
		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
	d. Solve problems using rational numbers.	MPA-117	Modeling Integer Arithmetic Using Cups and Counters
		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-018	Adding and Subtracting Decimals
		MPA-019	Multiplying Decimals
		MPA-020	Multiplying Decimals by Powers of Ten
		MPA-119	Dividing Decimals

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		MPA-122	Modeling Multiplication and Division of Decimals
		MPA-123	Modeling Multiplication and Division of Fractions
		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
M7G.	GEOMETRY		
M7G1.	Students will construct plane figures that meet given conditions.		
	a. Perform basic constructions using both compass and straight edge, and appropriate technology. Constructions should include copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.	<i>Lesson in Review</i>	
	b. Recognize that many constructions are based on the creation of congruent triangles.	MPA-121	Identifying Similar and Congruent Polygons Using Proportions
M7G2.	Students will demonstrate understanding of transformations.		
	a. Demonstrate understanding of translations, dilations, rotations, reflections, and relate symmetry to appropriate transformations.	MM1-500	Using Translations, Rotations and Reflections to Transform Shapes
		MPA-108	Graphing Translations and Reflections on the Coordinate Plane
		MPA-120	Applying Dilations in the Coordinate Plane
	b. Given a figure in the coordinate plane, determine the coordinates resulting from a translation, dilation, rotation, or reflection.	MPA-108	Graphing Translations and Reflections on the Coordinate Plane
		MPA-120	Applying Dilations in the Coordinate Plane
M7G3.	Students will use the properties of similarity and apply these concepts to geometric figures.		
	a. Understand the meaning of similarity, visually compare geometric figures for similarity, and describe similarities by listing corresponding parts.	MM1-470	Using Ratios to Identify Similar Figures
		MM1-475	Using Proportions to Solve for Unknown Lengths of Sides of Similar Figures
		MPA-121	Identifying Similar and Congruent Polygons Using Proportions
	b. Understand the relationships among scale factors, length ratios, and area ratios between similar figures. Use scale factors, length ratios, and area ratios to determine side lengths and areas of similar geometric figures.	MPA-121	Identifying Similar and Congruent Polygons Using Proportions
		MPA-120	Applying Dilations in the Coordinate Plane
	c. Understand congruence of geometric figures as a special case of similarity: The figures have the same size and shape.	MPA-121	Identifying Similar and Congruent Polygons Using Proportions
M7G4.	Students will further develop their understanding of three-dimensional figures.		
	a. Describe three-dimensional figures formed by translations and rotations of plane figures through space.	MPA-072	Identifying 3-D Figures
		MPA-107	Constructing Three-Dimensional Figures and Examining Their Dimensions
	b. Sketch, model, and describe cross-sections of cones, cylinders, pyramids, and prisms.	MPA-107	Constructing Three-Dimensional Figures and Examining Their Dimensions
M7A.	ALGEBRA		
M7A1.	Students will represent and evaluate quantities using algebraic expressions.		
	a. Translate verbal phrases to algebraic expressions.	MPA-041	Writing Simple Algebraic Expressions from Phrases
		MM1-615	Translating Words into Algebra
	b. Simplify and evaluate algebraic expressions, using commutative, associative, and distributive properties as appropriate.	MM1-620	Using the Order of Operations in Algebraic Expressions
		HA1-085	Simplifying Expressions Using the Properties of Real Numbers

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	c. Add and subtract linear expressions.	HA1-076	Basic Distributive Property
		HA1-075	Simplifying Algebraic Expressions by Combining Like Terms
M7A2	Students will understand and apply linear equations in one variable.		
	a. Given a problem, define a variable, write an equation, solve the equation, and interpret the solution.	MM1-600	Introducing Variables in Algebra
		MM1-605	Converting Fahrenheit and Celsius
		MM1-610	Finding Simple Interest
		MM1-615	Translating Words into Algebra
		MM1-620	Using the Order of Operations in Algebraic Expressions
		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
		MM1-635	Calculating Distance, Rate, or Time by Solving Equations
		MM1-640	Solving Algebraic Word Problems
		MPA-042	Solving Problems Using an Equation
		MPA-125	Formulating a Possible Problem Situation Given an Equation
	b. Use the addition and multiplication properties of equality to solve one- and two-step linear equations.	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-100	Solving Two-Step Equations
		MPA-101	Solving Equations by Combining Like Terms
M7A3	Students will understand relationships between two variables.		
	a. Plot points on a coordinate plane.	MPA-046	Graphing Points on a Coordinate Plane
	b. Represent, describe, and analyze relations from tables, graphs, and formulas.	HA1-436	Identifying Relations
	c. Describe how change in one variable affects the other variable.	MPA-102	Graphing Equations by Plotting Points
	d. Describe patterns in the graphs of proportional relationships, both direct ($y = kx$) and inverse ($y = k/x$).	MPA-102	Graphing Equations by Plotting Points
		HA1-955	Analyzing Linear Functions
M7D.	DATA ANALYSIS AND PROBABILITY		
M7D1.	Students will pose questions, collect data, represent and analyze the data, and interpret results.		
	a. Formulate questions and collect data from a census of at least 30 objects and from samples of varying sizes.	<i>Lesson in Review</i>	
	b. Construct frequency distributions.	HA1-545	Analyzing Linear Functions
		MPA-129	Choosing Appropriate Scales and Intervals for Data (an Introduction)
	c. Analyze data using measures of central tendency (mean, median, and mode), including recognition of outliers.	MPA-095	Find the Mean, Median, and Mode
	d. Analyze data with respect to measures of variation (range, quartiles, interquartile range).	MPA-097	Constructing Box-and-Whisker Plots
	e. Compare measures of central tendency and variation from samples to those from a census. Observe that sample statistics are more likely to approximate the population parameters as sample size increases.	<i>Lesson in Review</i>	
	f. Analyze data using appropriate graphs, including pictographs, histograms, bar graphs, line graphs, circle graphs, and line plots introduced earlier, and using box-and-whisker plots and scatter plots.	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
		MM1-410	Interpreting Box-and-Whisker Plots
		MM1-430	Using Graphs to Solve Story Problems
		MM1-435	Using Pictographs, Bar Graphs and Line Graphs to Solve Problems

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		MPA-131	Interpreting and Creating Histograms
		MPA-132	Interpreting and Creating Scatterplots
	g. Analyze and draw conclusions about data, including a description of the relationship between two variables.	MPA-098	Making Predictions from Graphs and Choosing the Correct Graph
		MPA-099	Recognizing Misleading Statistics and Graphs

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Georgia Performance Standards document adopted by the Georgia State Board of Education in 2005.