Georgia
Georgia Performance Standards (GPS)
Mathematics - Grade 7
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Benchmark Number	*Benchmark* • *Instructional Target*	*Gourmet Resource*	*Taught*	*Tested*
M 7 N.	***Numbers and Operations***			
	Students will further develop their understanding of the concept of rational numbers and apply them to real world situations.			
M 7 N 1.	Students will understand the meaning of positive and negative numbers including rational numbers and will compute them.			
a.	• *Find the absolute value of a number and understand it as the distance from the origin on a number line.*	**N/A**		
b.	• *Compare and order rational numbers including repeating decimals.*	**Appetizers 1 A;** **Main Dish Objective 1 (Number Concepts)**		
c.	• *Add, subtract, multiply, and divide positive and negative rational numbers.*	**Appetizers 2 A;** **Main Dish Objective 2 (Mathematical Relations)**		
d.	• *Solve problems using rational numbers.*	**Appetizers 6 A; 7 A; 8 A; 9 A** **Main Dish Objectives** **6 (Addition);** **7 (Subtraction);** **8 (Multiplication);** **9 (Division)**		
M 7 G.	***Geometry***			
	Students will further develop and apply their understanding of plane and solid geometrical figures.			

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M 7 G 1.	Students will construct plane figures that meet given conditions. They will also demonstrate understanding of transformations.			
a.	• *Make basic constructions using a compass and straight edge.*	**Appetizers 3 G; Main Dish Objective 3 (Geometry)**		
b.	• *Demonstrate understanding of translations, symmetry, dilations, rotations and reflections.*	**Appetizers 3 B & C; Main Dish Objective 3 (Geometry)**		
c.	• *Given a figure in the coordinate plane, determine the coordinates resulting from a translation, dilation, or reflection.*	**Appetizers 2 H; 3 B, C, & H; Main Dish Objectives 2 (Mathematical Relations); 3 (Geometry)**		
M 7 G 2.	Students will consider geometrical figures through various manipulations to deepen understanding of figures in space.			
a.	• *Describe solid geometric figures formed by movement of plane figures through space.*	**N/A**		
b.	• *Sketch/model and describe various cross sections of cones, cylinders, pyramids and prisms.*	**N/A**		
M 7 G 1 a.	**REMARK:** Constructions should include copying a segment and angle, the bisector of an angle, the perpendicular bisector of a line segment, congruent line segments, congruent angles, parallel lines, and circles.			
M 7 A.	***Algebra***			
	Students will demonstrate an understanding of linear relations and fundamental algebraic concepts.			
M 7 A 1.	Students will represent and evaluate quantities using algebraic expressions.			
a.	• *Translate verbal phrases to algebraic expressions.*	**Algebra Activity Resource 9. c 1 C**		

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b.	• *Use and evaluate algebraic expressions.*	**Algebra Activity Resource 9. b 4 A**		
c.	• *Add and subtract linear expressions.*	**Algebra Activity Resource 9. b 4 A**		
d.	• *Apply the properties of numbers to evaluate expressions (commutative, associative, and distributive properties).*	**Algebra Activity Resource 9. b 4 B**		
M 7 A 2.	Students will understand and apply linear equations with one variable.			
a.	• *Interpret the meaning of variables and the solution of an equation.*	**Algebra Activity Resource 9. c 3 C**		
b.	• *Understand the properties of equality.*	**Algebra Activity Resource 9. c 3 B**		
c.	• *Solve problems by applying simple linear equations.*	**Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations)**		
d.	• *Solve two-step linear equations with one variable.*	**Algebra Activity Resource 9. b 4 A**		
M 7 A 3.	Students will understand relations and functions.			
a.	• *Graph coordinates in a plane.*	**Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations)**		
b.	• *Represent, describe, and analyze a functional relation from a table, graph, and/or formula.*	**Algebra Activity Resource 9. b 1 D**		
c.	• *Describe the variation of two quantities.*	**Algebra Activity Resource 9. c 2 G**		
d.	• *Understand and graph direct proportions.*	**Algebra Activity Resource 9. c 2 G**		

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e.	• *Understand and graph inverse proportions.*	**Algebra Activity Resource 9. c 2 G**		
M 7 A 2.	**REMARK:** Algebra in 7th grade should emphasize linear relationships.			
M 7 A 3.	**REMARK:** Emphasize how change in one variable affects the other variable (corresponding variable quantities).			
M 7 D.	***Data Analysis and Probability***			
	Students will further develop and demonstrate their understanding of functional and statistical relationships by analyzing tables and graphs and develop their abilities to represent and use them.			
M 7 D 1.	Students will collect, organize, display, and analyze data by using tables and graphs and by determining the tendencies of the data considering representative values and dispersion.			
a.	• *Collect and organize data.*	**Appetizers 5 D; Main Dish Objective 5 (Probability/Statistics)**		
b.	• *Summarize data by constructing its frequency distribution table.*	**Appetizers 5 D; Main Dish Objective 5 (Probability/Statistics)**		
c.	• *Analyze data with respect to measure of variation (range) and measures of central tendency (mean, median, and mode), including outliers.*	**Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics)**		
d.	• *Display data in appropriate graphs.*	**Appetizers 12 B; Main Dish Objective 12 (Mathematical Representation)**		
e.	• *Analyze and draw conclusions about the data.*	**Appetizers 5 D; 12 C; Main Dish Objectives 5 (Probability/Statistics); 12 (Mathematical Representation)**		

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M 7 D 1.	**REMARK:** Students should collect data through surveys.			
M 7 D 1 d.	**REMARK:** Graphs should include histograms, line plots, stem-and-leaf plots, scatter plots and box-and-whisker plots.			
M 7 P.	***Process Skills***			
	Students will apply mathematical concepts and skills in the context of authentic problems and will understand concepts rather than merely following the sequence of procedures. The student will use the process standards as a way acquiring and using content knowledge.			
M 7 P 1.	Using appropriate technology the student will solve problems that arise in mathematics and in other context.			
a.	• *Solve non-routine word problems using strategies learned in previous grades.*	**Appetizers 11 A - D; Main Dish Objective 11 (Problem Solving)**		
b.	• *Solves single and multi-step routine word problems related to all appropriate seventh grade math standards.*	**Appetizers 11 A - D; Main Dish Objective 11 (Problem Solving)**		
c.	• *Determine the operation(s) needed to solve a problem.*	**Appetizers 6 A; 7 A; 8 A; 9 A Main Dish Objectives 6 (Addition); 7 (Subtraction); 8 (Multiplication); 9 (Division)**		
d.	• *Determine the most efficient way to solve a problem (mentally, paper/pencil, or calculator).*	**Appetizers 11 A; Main Dish Objective 11 (Problem Solving)**		
M 7 P 2.	Students will investigate, develop, and evaluate mathematical arguments.			
M 7 P 3.	Students will use the language of mathematics to express ideas precisely.			

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M 7 P 4.	Students understand how mathematical ideas interconnect and build on one another and apply mathematics in other content areas.			
M 7 P 5.	Students will create and use pictures, manipulatives, models and symbols to organize, record, and communicate mathematical ideas.			