ACCESS Math

correlated to
Georgia's Mathematics Performance Standards

Grades 6-8

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FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Mathematics **State-Funded Course:** 27.02100 Mathematics/Grade 6

Textbook Title: ACCESS Math

Publisher: Great Source Education Group

The Georgia Performance Standards for grades K-8 Mathematics may be accessed on-line at: http://www.georgiastandards.org/.

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M6N	**Numbers and Operations** Students will understand the meaning of the four arithmetic operations as related to positive rational numbers and will apply these concepts and associated skills in real world situations.	Lesson 4, Lessons 9-12, Lessons 20-22
M6N1	Students will understand the meaning of the four arithmetic operations as related to positive rational numbers and will use these concepts to solve problems.	TE pp. 31-34, 38-39, 41, 60-61, 70-73, 74, 75-78, 119-122, 124-127, 129-132
M6M	**Measurement** Students will understand how to determine the volume and surface area of solid figures. They will understand and use the customary and metric systems of measurement to measure quantities efficiently and to represent volume and surface area appropriately.	Lesson 37, Lessons 39-40, References
M6M1	Students will convert from one unit to another within one system of measurement (customary or metric) by using proportional relationships.	The opportunity to address this objective is available. See the following: TE pp. 136-139, 213, 223-224, 225, 228, 229, 293
M6M2	Students will use appropriate units of measure for finding length, perimeter, area and volume and will express each quantity using the appropriate unit.	TE pp. 212-213, 214-215, 216

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M6M3	Students will determine the volume of fundamental solid figures (right rectangular prisms, cylinders, pyramids and cones).	TE pp. 227-230, 231
M6M4	Students will determine the surface area of solid figures (right rectangular prisms and cylinders).	TE pp. 222-224, 226
M6G	**Geometry** Students will further develop their understanding of plane and solid geometric figures, incorporating the use of appropriate technology and using this knowledge to solve authentic problems.	Lessons 31-35, Lessons 38-40
M6G1	Students will further develop their understanding of plane figures.	TE pp. 180-183, 184, 185-188, 189, 190-193, 194, 195-198, 200-203, 217-220
M6G2	Students will further develop their understanding of solid figures.	TE pp. 222-225, 227-229
M6A	**Algebra** Students will investigate relationships between two quantities. They will write and solve proportions and simple one-step equations that result from problem situations.	Lesson 3, Lessons 5-8, Lesson 23, Lesson 49
M6A1	Students will understand the concept of ratio and use it to represent quantitative relationships.	TE pp. 136-139, 140
M6A2	Students will consider relationships between varying quantities.	TE pp. 40-41, 43-46, 47
M6A3	Students will evaluate algebraic expressions, including those with exponents, and solve simple one-step equations using each of the four basic operations.	TE pp. 26-29, 30, 48-51, 53-56, 278-279

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M6D	**Data Analysis and Probability** Students will demonstrate understanding of data analysis by posing questions to be answered by collecting data. They will represent, investigate, and use data to answer those questions. Students will understand experimental and theoretical probability.	Lessons 27-30, Lessons 41-42
M6D1	Students will pose questions, collect data, represent and analyze the data, and interpret results.	TE pp. 158-161, 162, 163-166, 167, 168-171, 172, 173-176, 177
M6D2	Students will use experimental and simple theoretical probability and understand the nature of sampling. They will also make predictions from investigations.	TE pp. 234-237, 238, 239-242, 243

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M6P	**Process Standards** Each topic studied in this course should be developed with careful thought toward helping every student achieve the following process standards.	Lesson 1 Problem-Solving Skills: Use a Problem Solving Guide Lesson 5, 6 Problem-Solving Skills: Look for a Pattern Lesson 10, 12 Problem-Solving Skills: Guess, Check, and Revise Lesson 14 Problem-Solving Skills: Make an Organized List Lesson 18, 19 Problem-Solving Skills: Work Backward Lesson 24 Problem-Solving Skills: Use Logical Reasoning Lesson 27, 28, 29, 30 Problem-Solving Skills: Make a Table Lesson 32 Problem-Solving Skills: Solve a Simpler Problem Problem-Solving Skills: Draw a Diagram Lesson 43, 44 Problem-Solving Skills: Simulate a Problem Problem-Solving Skills: Write an Equation Problem-Solving Skills: Make a Model
M6P1	Students will solve problems (using appropriate technology).	TE pp. 36, 58, 80, 102, 134, 156, 178, 210, 232, 254, 276, 277, 289
M6P2	Students will reason and evaluate mathematical arguments.	TE pp. 156-157
M6P3	Students will communicate mathematically.	TE pp. 39, 47, 67, 145, 157, 189, 233, 245, 250-251, 277, 289
M6P4	Students will make connections among mathematical ideas and to other disciplines.	TE pp. 18-19, 43, 58-59, 75, 79, 87, 111, 116
M6P5	Students will represent mathematics in multiple ways.	TE pp. 158-159, 160-162, 163-164, 168-171, 173-174

FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Mathematics **State-Funded Course:** 27.02200 Mathematics/Grade 7

Textbook Title: ACCESS Math

Publisher: Great Source Education Group

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Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M7N	**Numbers and Operations** Students will further develop their understanding of the concept of rational numbers and apply them to real world situations.	Lessons 9-12, Lessons 20-22, Lessons 45-47
M7N1	Students will understand the meaning of positive and negative rational numbers and use them in computation.	TE pp. 60-63, 70-73, 75-78, 119-122, 124-127, 129-131, 256-259, 260, 261-264, 265, 266-269, 270
M7G	**Geometry** Students will further develop and apply their understanding of plane and solid geometric figures through the use of constructions and transformations. Students will explore the properties of similarity and further develop their understanding of 3-dimensional figures.	Lessons 31-36, Lessons 38-40
M7G1	Students will construct plane figures that meet given conditions.	TE pp. 183, 184, 189, 192, 193
M7G2	Students will demonstrate understanding of transformations.	TE pp. 205-206, 207-208, 209
M7G3	Students will use the properties of similarity and apply these concepts to geometric figures.	TE pp. 200-203, 204

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M7G4	Students will further develop their understanding of three-dimensional figures.	TE pp. 222-225, 227-229
M7A	**Algebra** Students will demonstrate an understanding of linear relations and fundamental algebraic concepts.	Lesson 3, Lessons 5-8, Lesson 37, Lesson 39, Lessons 48-49
M7A1	Students will represent and evaluate quantities using algebraic expressions.	TE pp. 26-29, 30, 40-41, 43-46, 47
M7A2	Students will understand and apply linear equations in one variable.	TE pp. 48-51, 52, 53-56, 273, 278-281
M7A3	Students will understand relationships between two variables.	TE pp. 212-215, 216, 222-225, 226, 227-230, 231, 271-272
M7D	**Data Analysis and Probability** Students will demonstrate understanding of data analysis by posing questions, collecting data, analyzing the data using measures of central tendency and variation, and using the data to answer the questions posed. Students will understand the role of probability in sampling.	Lessons 27-30, Lesson 42
M7D1	Students will pose questions, collect data, represent and analyze the data, and interpret results.	TE pp. 158-161, 162, 163-166, 167, 168-171, 172, 173-176, 177, 241, 243

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M7P	**Process Standards** The following process standards are essential to mastering each of the mathematics content standards. They emphasize critical dimensions of the mathematical proficiency that all students need.	Lesson 1 Problem-Solving Skills: Use a Problem Solving Guide Lesson 5, 6 Problem-Solving Skills: Look for a Pattern Lesson 10, 12 Problem-Solving Skills: Guess, Check, and Revise Lesson 14 Problem-Solving Skills: Make an Organized List Lesson 18, 19 Problem-Solving Skills: Work Backward Lesson 24 Problem-Solving Skills: Use Logical Reasoning Lesson 27, 28, 29, 30 Problem-Solving Skills: Make a Table Lesson 32 Problem-Solving Skills: Solve a Simpler Problem Problem-Solving Skills: Draw a Diagram Lesson 43, 44 Problem-Solving Skills: Simulate a Problem Problem-Solving Skills: Write an Equation Problem-Solving Skills: Make a Model
M7P1	Students will solve problems (using appropriate technology).	TE pp. 36, 58, 80, 102, 134, 156, 178, 210, 232, 254, 276, 277, 289
M7P2	Students will reason and evaluate mathematical arguments.	TE pp. 156-157
M7P3	Students will communicate mathematically.	TE pp. 39, 47, 67, 145, 157, 189, 233, 245, 250-251, 277, 289
M7P4	Students will make connections among mathematical ideas and to other disciplines.	TE pp. 18-19, 43, 58-59, 75, 79, 87, 111, 116
M7P5	Students will represent mathematics in multiple ways.	TE pp. 158-159, 160-162, 163-164, 168-171, 173-174

FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Mathematics **State-Funded Course:** 27.02300 Mathematics/Grade 8

Textbook Title: ACCESS Math

Publisher: Great Source Education Group

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Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M8M	**Numbers and Operations** Students will understand the numeric and geometric meaning of square root, apply properties of integer exponents and use scientific notation.	Lesson 3, References
M8N1	Students will understand different representations of numbers including square roots, exponents, and scientific notation.	TE pp. 26-29, 30, 291
M8G	**Geometry** Students will use and apply geometric properties of plane figures, including congruence and the Pythagorean theorem.	Lessons 31-36, References
M8G1	Students will understand and apply the properties of parallel and perpendicular lines and understand the meaning of congruence.	TE pp. 181, 182, 195, 302-303, 308
M8G2	Students will understand and use the Pythagorean theorem.	The opportunity to address this objective is available. See the following: TE pp. 187-189
M8A	**Algebra** Students will use linear algebra to represent, analyze and solve problems. They will use equations, tables, and graphs to investigate linear relations and functions, paying particular attention to slope as a rate of change.	Lessons 5-8, Lesson 26, Lessons 29-30, Lessons 48-50

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M8A1	Students will use algebra to represent, analyze, and solve problems.	TE pp. 36, 58, 80-81, 134-135, 288-289
M8A2	Students will understand and graph inequalities in one variable.	TE pp. 283-287
M8A3	Students will understand relations and linear functions.	TE pp. 152-153, 272-274, 275
M8A4	Students will graph and analyze graphs of linear equations.	TE pp. 273
M8A5	Students will understand systems of linear equations and use them to solve problems.	The opportunity to address this objective is available. See the following: TE pp. 181-182, 280
M8D	**Data Analysis and Probability** Students will use and understand set theory and simple counting techniques; determine the theoretical probability of simple events; and make inferences from data, particularly data that can be modeled by linear functions.	Lessons 41-42
M8D1	Students will apply basic concepts of set theory.	The opportunity to address this objective is available. See the following: TE pp. 92, 156, 312
M8D2	Students will determine the number of outcomes related to a given event.	TE pp. 234, 235
M8D3	Students will use the basic laws of probability.	TE pp. 236-237
M8D4	Students will organize, interpret, and make inferences from statistical data.	TE pp. 238, 239, 241, 243

Standard (Cite Number)	**Standard** (Cite specific standard)	**Where Taught** (If print component, cite page number; if non-print, cite appropriate location.)
M8P	**Process Standards** The following process standards are essential to mastering each of the mathematics content standards. They emphasize critical dimensions of the mathematical proficiency that all students need.	Lesson 1 Problem-Solving Skills: Use a Problem Solving Guide Lesson 5, 6 Problem-Solving Skills: Look for a Pattern Lesson 10, 12 Problem-Solving Skills: Guess, Check, and Revise Lesson 14 Problem-Solving Skills: Make an Organized List Lesson 18, 19 Problem-Solving Skills: Work Backward Lesson 24 Problem-Solving Skills: Use Logical Reasoning Lesson 27, 28, 29, 30 Problem-Solving Skills: Make a Table Lesson 32 Problem-Solving Skills: Solve a Simpler Problem Problem-Solving Skills: Draw a Diagram Lesson 43, 44 Problem-Solving Skills: Simulate a Problem Problem-Solving Skills: Write an Equation Problem-Solving Skills: Make a Model
M8P1	Students will solve problems (using appropriate technology).	TE pp. 36, 58, 80, 102, 134, 156, 178, 210, 232, 254, 276, 277, 289
M8P2	Students will reason and evaluate mathematical arguments.	TE pp. 156-157
M8P3	Students will communicate mathematically.	TE pp. 39, 47, 67, 145, 157, 189, 233, 245, 250-251, 277, 289
M8P4	Students will make connections among mathematical ideas and to other disciplines.	TE pp. 18-19, 43, 58-59, 75, 79, 87, 111, 116
M8P5	Students will represent mathematics in multiple ways.	TE pp. 158-159, 160-162, 163-164, 168-171, 173-174

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