

# *Math Handbooks*

correlated to  
Georgia's Mathematics Performance Standards

Grades 1 – 8



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**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

**State-Funded Course:** 27.01200 Mathematics/Grade 1

**Textbook Title:** Math To Learn ©06

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
M1N	<b><u>Numbers and Operations</u></b> Students will understand how to represent numbers, and will be able to add and subtract small numbers.	Numeration, Addition and Subtraction—Concepts and Facts, Addition and Subtraction with Greater Numbers, Problem Solving, Almanac
M1N1	Students will estimate, model, compare, order, and represent whole numbers up to 100.	HB pp. 2-7, 8-15, 26-34, 38-39, 301
M1N2	Understand place value notation for the numbers between 1 and 100. (Discussions may allude to 3-digit numbers to assist in understanding place value.)	HB pp. 8-15, 22-23, 124-129, 141, 142-147
M1N3	Students will add and subtract numbers less than 100 as well as understand and use the inverse relationship between addition and subtraction.	HB pp. 54-71, 72-81, 82-89, 114-117, 120-121 124-129, 141, 142-147, 286-291
M1N4	Students will count collections of up to 100 objects by dividing them into equal parts and represent the results using words, pictures, or diagrams.	HB pp. 9-13, 15, 16-17
M1M	<b><u>Measurement</u></b> Students will measure basic quantitative attributes of concrete objects.	Measurement, Money and Time
M1M1	Students will compare and/or order the length, weight, or capacity of two or more objects by using direct comparison or a nonstandard unit.	HB pp. 208-213, 218-219, 222-225

<u>Standard</u> (Cite Number)	<u>Standard</u> (Cite specific standard)	<u>Where Taught</u> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M1M2</b>	Students will develop an understanding of the measurement of time.	HB pp. 180-191
<b>M1G</b>	<b><u>Geometry</u></b> Students will understand the concepts of basic geometric shapes and spatial relationships of concrete objects.	Geometry
<b>M1G1</b>	Students will study and create various two and three-dimensional figures and identify basic figures (squares, circles, triangles, and rectangles) within them.	HB pp. 196-197, 198-199, 200-201, 202-203, 204-205
<b>M1G2</b>	Students will compare, contrast, and/or classify geometric shapes by the common attributes of position, shape, size, number of sides, and number of corners.	HB pp. 196-197, 204-205
<b>M1G3</b>	Students will arrange and describe objects in space by proximity, position, and direction (near, far, below, above, up, down, behind, in front of, next to, and left or right of).	The opportunity to address this objective is available. See the following: HB pp. 202-203
<b>M1D</b>	<b><u>Data Analysis and Probability</u></b> Students will pose questions, collect, organize, and interpret data about themselves and their surroundings.	Addition and Subtraction—Concepts and Facts; Multiplication and Division Concepts; Graphing, Statistics, and Probability; Algebraic Thinking; Problem Solving
<b>M1D1</b>	Students will create simple tables and graphs, and interpret them.	HB pp. 68-69, 100-101, 234-241, 257, 264-265, 282-284
<b>M1P</b>	<b><u>Process Skills</u></b> Students will apply mathematical concepts and skills in the context of authentic problems and will understand concepts rather than merely following a sequence of procedures. The student will use the process standards as a way of acquiring and using content knowledge.	Numeration; Addition and Subtraction—Concepts and Facts; Multiplication and Division Concepts; Addition and Subtraction with Greater Numbers; Money and Time; Geometry: Measurement; Graphing, Statistics, and Probability; Algebraic Thinking; Problem Solving; Almanac
<b>M1P1</b>	Students will solve problems that arise in mathematics and in other contexts.	This objective is addressed throughout. See, for example: HB pp. 26-29, 80-81, 108-111, 128-129, 132, 170-179, 222-225, 244-249, 264-265, 268-296

<u>Standard</u> (Cite Number)	<u>Standard</u> (Cite specific standard)	<u>Where Taught</u> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M1P2</b>	Students will investigate, develop, and evaluate mathematical arguments.	This objective falls outside the scope of Great Source <i>Math to Learn</i> .
<b>M1P3</b>	Students will use the language of mathematics to express ideas precisely.	This objective is addressed throughout. See, for example: HB pp. 26-31, 55, 80-81, 111, 176-177, 204-205, 214-215, 258-261, 300-301, 309
<b>M1P4</b>	Students will understand how mathematical ideas interconnect and build on one another and will apply mathematics in other content areas.	This objective is addressed throughout. See, for example: HB pp. 14, 26-29, 42-49, 80-81, 108-111, 146-147, 172-173, 214-215, 236-237, 260-261, 272-275
<b>M1P5</b>	Students will create and use pictures, manipulatives, models, and symbols to organize, record, and communicate mathematical ideas.	This objective is addressed throughout. See, for example: HB pp. 26-34, 56-57, 84-85, 108-111, 142-153, 174-177, 198-199, 200-201, 234-241, 274-275

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

**State-Funded Course:** 27.01300 Mathematics/Grade 2

**Textbook Title:** Math To Learn ©06

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
M2N	<b><u>Numbers and Operations</u></b> Students will further develop their understanding of numbers - including fractions - and how to represent them. The students will understand and apply addition, subtraction and multiplication through concrete manipulation and perform basic calculations.	Numeration, Multiplication and Division Concepts, Addition and Subtraction with Greater Numbers, Money and Time, Algebraic Thinking
M2N1	Students will understand the place value representation of whole numbers through four digits.	HB pp. 8-15, 16-25, 124-141, 142-157
M2N2	Students will build fluency with multi-digit addition and subtraction.	HB pp. 114-123, 124-141, 142-157, 174-177
M2N3	Students will understand multiplication, multiply numbers, and verify results.	HB pp. 92-107
M2N4	Students will understand and compare common fractions with small denominators.	HB pp. 42-51
M2N5	Students will represent and interpret quantities and relationships using mathematical expressions including equality and inequality signs (=, <, >).	HB pp. 26-31, 50-51, 178, 258-261

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M2M</b>	<b><u>Measurement</u></b> Students will understand length, time, and temperature and choose an appropriate tool to measure them.	Money and Time, Measurement
<b>M2M1</b>	Students will know the standard units of inch, foot, yard, and metric units of centimeter and meter and measure length to the nearest inch or centimeter.	HB pp. 210-213
<b>M2M2</b>	Students will tell time to the nearest five minutes and know relationships of time such as the number of minutes in an hour and hours in a day.	HB pp. 180-191
<b>M2M3</b>	Students will estimate, then measure, temperature (Fahrenheit) and determine if estimations were reasonable.	The opportunity to address this objective is available. See the following: HB pp. 226-229
<b>M2G</b>	<b><u>Geometry</u></b> Students will understand basic and compound geometric shapes together with the elements from which they are composed.	Geometry
<b>M2G1</b>	Students will describe and classify plane figures (triangles, square, rectangle, trapezoid, quadrilateral, pentagon, hexagon, and irregular polygonal shapes) according to the number of edges and vertices and the sizes of angles (right angle, obtuse, acute).	HB pp. 196-197
<b>M2G2</b>	Students will describe and classify solid geometric figures (prisms, cylinders, cones, and spheres) according to such things as the number of edges and vertices and the number and shape of faces and angles.	HB pp. 204-205
<b>M2G3</b>	Students will describe the change in attributes as two and three-dimensional shapes are cut and rearranged.	HB pp. 202-203

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<b>M2D</b>	<b>Data Analysis and Probability</b> Students will pose questions, collect, organize, and interpret data about themselves and their surroundings.	Addition and Subtraction—Concepts and Facts; Multiplication and Division Concepts; Graphing, Statistics, and Probability; Algebraic Thinking; Problem Solving
<b>M2D1</b>	Students will create simple tables and graphs and interpret their meaning.	HB pp. 68-69, 100-101, 234-241, 257, 264-265, 282-284
<b>M2P</b>	<b>Process Skills</b> Students will apply mathematical concepts and skills in the context of authentic problems and will understand concepts rather than merely following a sequence of procedures. The students will use the process standards as a way of acquiring and using content knowledge.	Numeration; Addition and Subtraction—Concepts and Facts; Multiplication and Division Concepts; Addition and Subtraction with Greater Numbers; Money and Time; Geometry; Measurement; Graphing, Statistics, and Probability; Algebraic Thinking; Problem Solving; Almanac
<b>M2P1</b>	Students will solve problems that arise in mathematics and in other contexts.	This objective is addressed throughout. See, for example: HB pp. 26-29, 80-81, 108-111, 128-129, 132, 170-179, 222-225, 244-249, 264-265, 268-296
<b>M2P2</b>	Students will be able to investigate, develop, and evaluate mathematical arguments.	This objective falls outside the scope of Great Source <i>Math to Learn</i> .
<b>M2P3</b>	Students will be able to use the language of mathematics to express ideas precisely.	This objective is addressed throughout. See, for example: HB pp. 26-31, 55, 80-81, 111, 176-177, 204-205, 214-215, 258-261, 300-301, 309
<b>M2P4</b>	Students understand how mathematical ideas interconnect and build on one another and apply mathematics in other content areas.	This objective is addressed throughout. See, for example: HB pp. 14, 26-29, 42-49, 80-81, 108-111, 146-147, 172-173, 214-215, 236-237, 260-261, 272-275
<b>M2P5</b>	Students will be able to create and use pictures, manipulatives, models, and symbols to organize, record, and communicate mathematical ideas.	This objective is addressed throughout. See, for example: HB pp. 26-34, 56-57, 84-85, 108-111, 142-153, 174-177, 198-199, 200-201, 234-241, 274-275

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

**State-Funded Course:** 27.01400 Mathematics/Grade 3

**Textbook Title:** Math To Know ©06

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
M3N	<b><u>Numbers and Operations</u></b> Students will use decimal fractions and common fractions to represent parts of a whole. They will also understand the four arithmetic operations for whole numbers and use them in basic calculations, and apply them in problem solving situations.	Place Value, Basic Operations, Mental Math and Estimation, Computing with Whole Numbers and Decimals, Fractions, Algebraic Thinking
M3N1	Students will further develop their understanding of whole numbers and ways of representing them.	HB pp. 2-16
M3N2	Students will further develop their skills of addition and subtraction and apply them in problem solving.	HB pp. 34-45, 46-59, 102-111, 112-117, 132-135, 145-158, 159-171, 240-243
M3N3	Students will further develop their understanding of multiplication of whole numbers and develop the ability to apply it in problem solving.	HB pp. 60-73, 88-96, 118-125, 136-138, 172-183, 241-249
M3N4	Students will understand the meaning of division and develop the ability to apply it in problem solving.	HB pp. 74-85, 126-127, 139-140, 184-191, 192-207
M3N5	Students will understand the meaning of decimal fractions and common fractions in simple cases and apply them in problem-solving situations.	HB pp. 154-158, 168-171, 179, 192-193, 209-226, 227-235

<u>Standard</u> (Cite Number)	<u>Standard</u> (Cite specific standard)	<u>Where Taught</u> (If print component, cite page number; if non-print, cite appropriate location.)
M3M	<b>Measurement</b> Students will understand and measure time and length. They will also model and calculate perimeter and area of simple geometric figures.	Measurement, Algebraic Thinking
M3M1	Students will further develop their understanding of the concept of time by determining elapsed time of a full, half and quarter-hour.	HB pp. 338-339
M3M2	Students will measure length choosing appropriate units and tools.	HB pp. 345-347
M3M3	Students will understand and measure the perimeter of simple geometric figures (squares and rectangles).	HB pp. 262, 348-349
M3M4	Students will understand and measure the area of simple geometric figures (squares and rectangles).	HB pp. 263, 350-353
M3G	<b>Geometry</b> Students will further develop their understanding of characteristics of previously studied geometric figures.	Geometry
M3G1	Students will further develop their understanding of geometric figures by drawing them. They will also state and explain their properties.	HB pp. 310-316, 317-325, 326-331
M3A	<b>Algebra</b> Students will understand how to express relationships as mathematical expressions.	Algebraic Thinking
M3A1	Students will use mathematical expressions to represent relationships between quantities and interpret given expressions.	HB pp. 250-254, 255-257

<b>Standard</b> (Cite Number)	<b>Standard</b> (Cite specific standard)	<b>Where Taught</b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M3D</b>	<b>Data Analysis</b> Students will gather, organize, and display data and interpret graphs.	Basic Operations; Algebraic Thinking; Graphing, Statistics, and Probability; Problem Solving
<b>M3D1</b>	Students will create and interpret simple tables and graphs.	HB pp. 37, 53, 63, 81, 87, 258-261, 266-268, 270-277, 280-283, 284-290, 378-379
<b>M3P</b>	<b>Process Skills</b> Students will apply mathematical concepts and skills in the context of authentic problems and will understand concepts rather than merely following a sequence of procedures. The students will use the process standards as a way of acquiring and using content knowledge.	Place Value; Basic Operations; Mental Math and Estimation; Computing with Whole Numbers and Decimals; Fractions; Algebraic Thinking; Graphing, Statistics, and Probability; Geometry; Measurement; Problem Solving
<b>M3P1</b>	Students will solve problems that arise in mathematics and in other contexts.	This objective is addressed throughout. See, for example: HB pp. 10-13, 46-49, 102-103, 132-140, 180-181, 224-226, 280-281, 320-321, 370-371, 386-400
<b>M3P2</b>	Students will investigate, develop, and evaluate mathematical arguments.	The opportunity to address this objective is available. See the following: HB pp. 394-395
<b>M3P3</b>	Students will use the language of mathematics to express ideas precisely.	This objective is addressed throughout. See, for example: HB pp. 36, 48, 62, 76, 185, 212, 240-249, 250-252, 255-257, 341-344, 384-385
<b>M3P4</b>	Students will understand how mathematical ideas interconnect and build on one another and apply mathematics in other content areas.	This objective is addressed throughout. See, for example: HB pp. 38-39, 82-83, 123, 146-151, 168-171, 227-235, 251-252, 292-299, 341-344, 392-393
<b>M3P5</b>	Students will create and use pictures, manipulatives, models, and symbols to organize, record, and communicate mathematical ideas.	This objective is addressed throughout. See, for example: HB pp. 23-24, 64-65, 122-123, 154-157, 192-193, 230-235, 267-283, 308-309, 314-315, 354-355

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

**State-Funded Course:** 27.01500 Mathematics/Grade 4

**Textbook Title:** Math To Know ©06

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M4N</b>	<b><u>Numbers and Operations</u></b> Students will further develop their understanding of whole numbers and master the four basic operations with whole numbers by solving problems. They will also understand rounding and when to appropriately use it. Students will add and subtract decimal fractions and common fractions with common denominators.	Place Value, Basic Operations, Mental Math and Estimation, Computing with Whole Numbers and Decimals, Fractions, Algebraic Thinking
<b>M4N1</b>	Students will further develop their understanding of how whole numbers are represented in the base-ten numeration system.	HB pp. 2-11, 12-13, 14-15, 16
<b>M4N2</b>	Students will understand and apply the concept of rounding numbers.	HB pp. 128-131, 141-143
<b>M4N3</b>	Students will solve problems involving multiplication of 2-3 digit numbers by 1-2 digit numbers.	HB pp. 118-125, 172-183
<b>M4N4</b>	Students will further develop their understanding of division of whole numbers and divide in problem solving situations without calculators.	HB pp. 74-85, 126-127, 139-140, 184-207
<b>M4N5</b>	Students will further develop their understanding of the meaning of decimal fractions and use them in computations.	HB pp. 22-31, 154-158, 168-171, 179, 192-193

<b>Standard</b> (Cite Number)	<b>Standard</b> (Cite specific standard)	<b>Where Taught</b> (If print component, cite page number; if non-print, cite appropriate location.)
M4N6	Students will further develop their understanding of the meaning of common fractions and use them in computations.	HB pp. 141-143, 210-226, 227-235
M4N7	Students will explain and use properties of the four arithmetic operations to solve and check problems.	HB pp. 152, 163, 183, 205, 240-241, 242-243, 244-245, 246, 247, 248-249
M4M	<b>Measurement</b> Students will measure weight in appropriate metric and standard units. They will also measure angles.	Geometry, Measurement
M4M1	Students will understand the concept of weight and how to measure it.	HB pp. 358-359
M4M2	Students will understand the concept of angles and how to measure it.	HB pp. 306-309
M4G	<b>Geometry</b> Students will understand and construct plane and solid geometric figures. They will also graph points on the coordinate plane.	Algebraic Thinking, Geometry
M4G1	Students will define and identify the characteristics of geometric figures through examination and construction.	HB pp. 310-316, 317-325, 326-331
M4G2	Students will understand fundamental solid figures.	HB pp. 326-331
M4G3	Students will use the coordinate system.	HB pp. 258-261, 280-281
M4A	<b>Algebra</b> Students will investigate and represent mathematical relationships between quantities using mathematical expressions in problem-solving situations.	Algebraic Thinking
M4A1	Students will represent and interpret mathematical relationships in quantitative expressions.	HB pp. 250-254, 255-257, 262-263

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M4D</b>	<b><u>Data Analysis</u></b> Students will gather, organize, and display data. They will also compare features of graphs.	Graphing, Statistics, and Probability; Problem Solving
<b>M4D1</b>	Students will gather, organize, and display data according to the situation and compare related features.	HB pp. 266-283, 284-290, 378-379
<b>M4P</b>	<b><u>Process Skills</u></b> Students will apply mathematical concepts and skills in the context of authentic problems and will understand concepts rather than merely following a sequence of procedures. Students will use the process standards as a way of acquiring and using content knowledge.	Place Value; Basic Operations; Mental Math and Estimation; Computing with Whole Numbers and Decimals; Fractions; Algebraic Thinking; Graphing, Statistics, and Probability; Geometry; Measurement; Problem Solving
<b>M4P1</b>	Using the appropriate technology, students will solve problems that arise in mathematics and in other contexts.	This objective is addressed throughout. See for example: HB pp. 10-13, 46-49, 102-103, 132-140, 180-181, 224-226, 280-281, 320-321, 370-371, 386-400
<b>M4P2</b>	Students will investigate, develop, and evaluate mathematical arguments.	The opportunity to address this objective is available. See the following: HB pp. 394-395
<b>M4P3</b>	Students will use the language of mathematics to express ideas precisely.	This objective is addressed throughout. See, for example: HB pp. 36, 48, 62, 76, 185, 212, 240-249, 250-252, 255-257, 341-344, 384-385
<b>M4P4</b>	Students will understand how mathematical ideas interconnect and build on one another and apply mathematics in other content areas.	This objective is addressed throughout. See, for example: HB pp. 38-39, 82-83, 123, 146-151, 168-171, 227-235, 251-252, 292-299, 341-344, 392-393
<b>M4P5</b>	Students will create and use pictures, manipulatives, models, and symbols to organize, record, and communicate mathematical ideas.	This objective is addressed throughout. See, for example: HB pp. 23-24, 64-65, 122-123, 154-157, 192-193, 230-235, 267-283, 308-309, 314-315, 354-355

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

**State-Funded Course:** 27.01600 Mathematics/Grade 5

**Textbook Title:** Math At Hand ©04

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M5N</b>	<b><u>Numbers and Operations</u></b> Students will further develop their understanding of the concept of whole numbers. They will also understand the meanings of multiplication and division of decimal fractions and use decimal fractions and common fractions in computation, as well as in problem solving situations.	Numeration, Mental Math and Estimation, Computing with Whole Numbers and Decimals
<b>M5N1</b>	Students will further develop their understanding of whole numbers.	HB pp. 003-006, 095, 119-122, 127-130, 137-138, 144
<b>M5N2</b>	Students will further develop their understanding of decimal fractions as part of the base-ten number system.	HB pp. 019, 143, 483
<b>M5N3</b>	Students will further develop their understanding of the meaning of multiplication and division with decimal fractions and use them.	HB pp. 043, 143, 155
<b>M5N4</b>	Students will continue to develop their understanding of the meaning of common fractions and compute with them.	HB pp. 028-035, 157-161, 162, 167
<b>M5N5</b>	Students will understand the meaning of percentage.	HB pp. 044, 185, 189-197

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M5M</b>	<b><u>Measurement</u></b> Students will compute the area of geometric plane figures. They will also understand the concept of volume and compute the volume of simple geometric solids and measure capacity. Students will convert from one unit to another within one system of measurement	Geometry
<b>M5M1</b>	Students will extend their understanding of area of fundamental geometric plane figures.	HB pp. 299-308
<b>M5M3</b>	Students will measure capacity with appropriately chosen units and tools.	HB pp. 313, 314, 315
<b>M5M4</b>	Students will understand and compute the volume of a simple geometric solid.	HB pp. 309, 310, 311, 312
<b>M5G</b>	<b><u>Geometry</u></b> Students will further develop their understanding of geometric figures.	Measurement, Geometry
<b>M5G1</b>	Students will understand congruence of geometric figures and the correspondence of their vertices, sides, and angles.	HB pp. 349, 372, 373, 374
<b>M5G2</b>	Students will understand the relationship of the circumference of a circle to its diameter is pi ( $\pi \approx 3.14$ ).	HB pp. 298, 368
<b>M5A</b>	Algebra Students will represent and investigate mathematical expressions algebraically by using variables.	HB pp. 236, 237, 238, 239, 240, 241, 242, 243, 244, 245
<b>M5A1</b>	Students will represent and interpret the relationships between quantities algebraically.	HB pp. 236, 237, 238, 239, 241
<b>M5D</b>	<b><u>Data Analysis</u></b> Students will gather, organize, and display data and interpret graphs.	Graphing, Statistics, and Probability
<b>M5D1</b>	Students will analyze graphs.	HB pp. 272, 273, 274, 275, 276, 278, 279, 280, 281

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<b>M5D2</b>	Students will collect, organize, and display data using the most appropriate graph.	HB pp. 269, 270, 271
<b>M5P</b>	<b><u>Process Skills</u></b> Students will apply mathematical concepts and skills in the context of authentic problems and will understand concepts rather than merely following a sequence of procedures. Students will use the process standards as a way of acquiring and using content knowledge.	Numeration, Computing with Whole Numbers and Decimals, Pre-Algebra, Measurement, Problem Solving
<b>M5P1</b>	Using the appropriate technology, students will solve problems that arise in mathematics and in other contexts.	HB pp. 396, 397, 398, 399, 400, 401, 403
<b>M5P2</b>	Students will investigate, develop, and evaluate mathematical arguments.	This objective falls outside the scope of Great Source <i>Math on Call</i> .
<b>M5P3</b>	Students will use the language of mathematics to express ideas precisely.	HB pp. 238, 240, 241, 245
<b>M5P4</b>	Students will understand how mathematical ideas interconnect and build on one another and apply mathematics in other content areas.	HB pp. 023-027, 295, 324, 399
<b>M5P5</b>	Students will create and use pictures, manipulatives, models, and symbols to organize, record, and communicate mathematical ideas.	HB pp. 023-027, 033, 062, 143, 314

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

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

**Textbook Title:** Math At Hand ©04

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
M6N	<b><u>Numbers and Operations</u></b> 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.	Computing with Whole Numbers and Decimals, Pre-Algebra
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.	HB pp. 118, 119, 120, 121, 124, 129, 130, 139, 144, 145, 202, 207
M6M	<b><u>Measurement</u></b> 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.	Measurement
M6M1	Students will convert from one unit to another within one system of measurement (customary or metric) by using proportional relationships.	HB pp. 294, 295, 296, 297, 313, 314, 316, 317, 318
M6M2	Students will use appropriate units of measure for finding length, perimeter, area and volume and will express each quantity using the appropriate unit.	HB pp. 294, 295, 296, 297, 299, 300, 301, 302, 303, 303, 309, 310, 311, 312

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M6M3</b>	Students will determine the volume of fundamental solid figures (right rectangular prisms, cylinders, pyramids and cones).	HB pp. 309, 310, 311, 312
<b>M6M4</b>	Students will determine the surface area of solid figures (right rectangular prisms and cylinders).	HB pp. 306, 307, 308
<b>M6G</b>	<b><u>Geometry</u></b> 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.	Geometry
<b>M6G1</b>	Students will further develop their understanding of plane figures.	HB pp. 356, 357, 358, 361, 362, 363, 364, 365, 371, 372, 373, 378, 379, 380
<b>M6G2</b>	Students will further develop their understanding of solid figures.	HB pp. 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392
<b>M6A</b>	<b><u>Algebra</u></b> Students will investigate relationships between two quantities. They will write and solve proportions and simple one-step equations that result from problem situations.	Ratio, Proportion, and Percent; Pre-Algebra
<b>M6A1</b>	Students will understand the concept of ratio and use it to represent quantitative relationships.	HB pp. 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188
<b>M6A2</b>	Students will consider relationships between varying quantities.	HB pp. 180, 181, 182, 183, 184, 185, 186, 187, 188
<b>M6A3</b>	Students will evaluate algebraic expressions, including those with exponents, and solve simple one-step equations using each of the four basic operations.	HB pp. 237, 238, 239, 240, 241, 242, 243

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M6D</b>	<b><u>Data Analysis and Probability</u></b> 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.	Graphing Statistics and Probability
<b>M6D1</b>	Students will pose questions, collect data, represent and analyze the data, and interpret results.	HB pp. 248, 253, 254, 267, 268, 269-284
<b>M6D2</b>	Students will use experimental and simple theoretical probability and understand the nature of sampling. They will also make predictions from investigations.	HB pp. 286, 287, 288, 289, 290, 291, 292
<b>M6P</b>	<b><u>Process Standards</u></b> Each topic studied in this course should be developed with careful thought toward helping every student achieve the following process standards.	Numeration, Computing with Whole Numbers and Decimals, Pre-Algebra, Measurement, and Problem Solving
<b>M6P1</b>	Students will solve problems (using appropriate technology).	HB pp. 396, 397, 398, 399, 400, 401, 403
<b>M6P2</b>	Students will reason and evaluate mathematical arguments.	This objective falls outside the scope of Great Source <i>Math on Call</i> .
<b>M6P3</b>	Students will communicate mathematically.	HB pp. 238, 240, 241, 245
<b>M6P4</b>	Students will make connections among mathematical ideas and to other disciplines.	HB pp. 023-027, 295, 324, 399
<b>M6P5</b>	Students will represent mathematics in multiple ways.	HB pp. 025, 026, 033, 062, 238, 240, 241, 245

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

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

**Textbook Title:** Math On Call ©04

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M6N</b>	<b><u>Numbers and Operations</u></b> 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.	Computation
<b>M6N1</b>	Students will understand the meaning of the four arithmetic operations as related to positive rational numbers and will use these concepts to solve problems.	HB pp. 096, 097, 098, 099, 101, 106, 107, 118, 119, 134, 152, 153, 160, 179, 187
<b>M6M</b>	<b><u>Measurement</u></b> 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.	Geometry, Ratio, Proportion, and Percent; Almanac
<b>M6M1</b>	Students will convert from one unit to another within one system of measurement (customary or metric) by using proportional relationships.	HB pp. 355, 436, 437, 535, 536, 537
<b>M6M2</b>	Students will use appropriate units of measure for finding length, perimeter, area and volume and will express each quantity using the appropriate unit.	HB pp. 346, 347, 354, 356, 357, 365, 367, 368, 375, 397, 398, 402, 408, 413, 418

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M6M3</b>	Students will determine the volume of fundamental solid figures (right rectangular prisms, cylinders, pyramids and cones).	HB pp. 397, 398, 399, 402, 408, 413, 418, 422
<b>M6M4</b>	Students will determine the surface area of solid figures (right rectangular prisms and cylinders).	HB pp. 396, 401, 407, 412, 417, 421
<b>M6G</b>	<b><u>Geometry</u></b> 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.	Geometry
<b>M6G1</b>	Students will further develop their understanding of plane figures.	HB pp. 344, 345, 346, 347, 348, 349, 350, 351, 352, 361, 362, 372, 373, 374, 390
<b>M6G2</b>	Students will further develop their understanding of solid figures.	HB pp. 393, 394, 395, 400, 401, 405, 412, 413, 415, 416, 417, 418, 419, 420, 421
<b>M6A</b>	<b><u>Algebra</u></b> Students will investigate relationships between two quantities. They will write and solve proportions and simple one-step equations that result from problem situations.	Ratio, Proportion, and Percent; Algebra
<b>M6A1</b>	Students will understand the concept of ratio and use it to represent quantitative relationships.	HB pp. 424, 425, 426, 427, 429, 430, 431, 434, 435, 436, 437, 438, 440
<b>M6A2</b>	Students will consider relationships between varying quantities.	HB pp. 436, 437, 438, 440
<b>M6A3</b>	Students will evaluate algebraic expressions, including those with exponents, and solve simple one-step equations using each of the four basic operations.	HB pp. 239, 240, 241, 242

<u>Standard</u> (Cite Number)	<u>Standard</u> (Cite specific standard)	<u>Where Taught</u> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M6D</b>	<b>Data Analysis and Probability</b> 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.	Graphs and Statistics
<b>M6D1</b>	Students will pose questions, collect data, represent and analyze the data, and interpret results.	HB pp. 262, 263, 264, 269, 271, 272, 285-306, 308
<b>M6D2</b>	Students will use experimental and simple theoretical probability and understand the nature of sampling. They will also make predictions from investigations.	HB pp. 264-267, 310, 311, 312, 313
<b>M6P</b>	<b>Process Standards</b> Each topic studied in this course should be developed with careful thought toward helping every student achieve the following process standards.	Computation; Algebra; Geometry; Ratio, Proportion, and Percent; Almanac
<b>M6P1</b>	Students will solve problems (using appropriate technology).	The opportunity to address this objective is available. See the following: HB pp. 476-485, 486-494
<b>M6P2</b>	Students will reason and evaluate mathematical arguments.	This objective falls outside the scope of Great Source <i>Math on Call</i> .
<b>M6P3</b>	Students will communicate mathematically.	HB pp. 202, 203, 204, 205, 228, 229
<b>M6P4</b>	Students will make connections among mathematical ideas and to other disciplines.	The opportunity to address this objective is available. See the following: HB pp. 149, 176, 255, 354, 423
<b>M6P5</b>	Students will represent mathematics in multiple ways.	HB pp. 228, 229, 230

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

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

**Textbook Title:** Math On Call ©04

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
M7N	<b><u>Numbers and Operations</u></b> Students will further develop their understanding of the concept of rational numbers and apply them to real world situations.	Computation
M7N1	Students will understand the meaning of positive and negative rational numbers and use them in computation.	HB pp. 096, 097, 098, 099, 101, 106, 108, 118, 119, 136, 152, 153, 160, 179, 193
M7G	<b><u>Geometry</u></b> 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.	Geometry
M7G1	Students will construct plane figures that meet given conditions.	HB pp. 344, 345, 348, 363, 368
M7G2	Students will demonstrate understanding of transformations.	HB pp. 384, 385, 386, 387, 388, 389, 390
M7G3	Students will use the properties of similarity and apply these concepts to geometric figures.	HB pp. 376, 377, 378, 391, 392

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M7G4</b>	Students will further develop their understanding of three-dimensional figures.	HB pp. 394, 395, 396, 400, 401, 402, 403, 404, 405, 406, 407, 409, 411, 414, 421
<b>M7A</b>	<b><u>Algebra</u></b> Students will demonstrate an understanding of linear relations and fundamental algebraic concepts.	Algebra
<b>M7A1</b>	Students will represent and evaluate quantities using algebraic expressions.	HB pp. 203, 204, 206
<b>M7A2</b>	Students will understand and apply linear equations in one variable.	HB pp. 245, 246, 247, 248, 249, 250, 255, 256
<b>M7A3</b>	Students will understand relationships between two variables.	HB pp. 202, 204, 236
<b>M7D</b>	<b><u>Data Analysis and Probability</u></b> 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.	Graphs and Statistics, Probability and Odds
<b>M7D1</b>	Students will pose questions, collect data, represent and analyze the data, and interpret results.	HB pp. 262, 263, 264, 269, 271, 272, 285-306, 308, 462, 465
<b>M7P</b>	<b><u>Process Standards</u></b> 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.	Computation; Algebra; Geometry; Ratio, Proportion, and Percent; Almanac
<b>M7P1</b>	Students will solve problems (using appropriate technology).	The opportunity to address this objective is available. See the following: HB pp. 476-485, 486-494

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M7P2</b>	Students will reason and evaluate mathematical arguments.	This objective falls outside the scope of Great Source <i>Math on Call</i> .
<b>M7P3</b>	Students will communicate mathematically.	HB pp. 202, 203, 204, 205, 228, 229
<b>M7P4</b>	Students will make connections among mathematical ideas and to other disciplines.	The opportunity to address this objective is available. See the following: HB pp. 149, 176, 255, 354, 423
<b>M7P5</b>	Students will represent mathematics in multiple ways.	HB pp. 228, 229, 230

**FORMAT FOR CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS**

**Subject Area:** Mathematics

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

**Textbook Title:** Math On Call ©04

**Publisher:** Great Source Education Group

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

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
M8M	<b><u>Numbers and Operations</u></b> Students will understand the numeric and geometric meaning of square root, apply properties of integer exponents and use scientific notation.	Numeration, Number Theory
M8N1	Students will understand different representations of numbers including square roots, exponents, and scientific notation.	HB pp. 005, 006, 016, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085
M8G	<b><u>Geometry</u></b> Students will use and apply geometric properties of plane figures, including congruence and the Pythagorean theorem.	Geometry
M8G1	Students will understand and apply the properties of parallel and perpendicular lines and understand the meaning of congruence.	HB pp. 325, 381, 382, 383
M8G2	Students will understand and use the Pythagorean theorem.	HB pp. 359
M8A	<b><u>Algebra</u></b> 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.	Algebra

<u>Standard</u> (Cite Number)	<u>Standard</u> (Cite specific standard)	<u>Where Taught</u> (If print component, cite page number; if non-print, cite appropriate location.)
M8A1	Students will use algebra to represent, analyze, and solve problems.	HB pp. 240, 241, 242
M8A2	Students will understand and graph inequalities in one variable.	HB pp. 247, 248, 249, 250, 251, 252, 253, 255
M8A3	Students will understand relations and linear functions.	HB pp. 245, 246, 247, 248, 249, 250, 255, 256
M8A4	Students will graph and analyze graphs of linear equations.	HB pp. 245, 246, 247, 248, 249, 250, 255, 256
M8A5	Students will understand systems of linear equations and use them to solve problems.	HB pp. 247, 248, 255
M8D	<b>Data Analysis and Probability</b> 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.	Graphs and Statistics, Probability and Odds
M8D1	Students will apply basic concepts of set theory.	This objective falls outside the scope of Great Source <i>Math on Call</i> .
M8D2	Students will determine the number of outcomes related to a given event.	HB pp. 465, 466, 467, 468, 469, 470
M8D3	Students will use the basic laws of probability.	HB pp. 462, 463, 464, 465, 466, 467, 468, 469, 470
M8D4	Students will organize, interpret, and make inferences from statistical data	HB pp. 285-306, 308
M8P	<b>Process Standards</b> 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.	Computation; Algebra; Geometry; Ratio, Proportion, and Percent; Almanac

<b><u>Standard</u></b> (Cite Number)	<b><u>Standard</u></b> (Cite specific standard)	<b><u>Where Taught</u></b> (If print component, cite page number; if non-print, cite appropriate location.)
<b>M8P1</b>	Students will solve problems (using appropriate technology).	The opportunity to address this objective is available. See the following: HB pp. 476-485, 486-494
<b>M8P2</b>	Students will reason and evaluate mathematical arguments.	This objective falls outside the scope of Great Source <i>Math on Call</i> .
<b>M8P3</b>	Students will communicate mathematically.	HB pp. 202, 203, 204, 205, 228, 229
<b>M8P4</b>	Students will make connections among mathematical ideas and to other disciplines.	The opportunity to address this objective is available. See the following: HB pp. 149, 176, 255, 354, 423
<b>M8P5</b>	Students will represent mathematics in multiple ways.	HB pp. 228, 229, 230



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