

Great Source Education

Math on Call

© 2006

correlated to

**Mississippi Mathematics Framework
Pre-Algebra**

Explanation Of Correlation

The following document is a correlation of **Great Source Education, *Math on Call*** to the Mississippi Mathematics Framework. The format of this correlation follows the same basic format established by the Mathematics Framework, modified to accommodate the addition of page references. The correlation provides a cross-reference between the skills in the Mathematics Framework and representative page numbers where those skills are taught or assessed.

The references contained in this correlation reflect Great Source Education's interpretation of the Mathematic objectives outlined in the Mississippi Mathematics Framework.

Key to References

SE *Student's Edition*

Great Source Education
Math on Call © 2006

correlated to

Mississippi Mathematics Framework (2007)
Pre-Algebra

Standard	Descriptor	Page Citations
Number and Operations		
1. Apply concepts and perform basic operations using real numbers in real-world contexts.		
a.	Define, classify, and order rational and irrational numbers and their subsets. (DOK 1)	SE: 27-28, 41-42, 46-47, 49, 52, 84 Resource Book: 26-27 Practice Book A: 75
b.	Formulate and solve standard and real-life problems involving addition, subtraction, multiplication, and division of rational numbers. (DOK 2)	SE: 96-99, 101-109, 112-113, 115, 125-129, 131-137, 140-142, 152-155, 158-165, 167, 169-171, 179-181, 184-194, 198-199 Resource Book: 32-33, 46-47, 52-53 Practice Book A: 32, 39, 41, 59, 67, 82-83, 104-105 Practice Book B: 58-61, 76-79, 83, 100-101
c.	Apply the concepts of Greatest Common Factor (GCF) and Least Common Multiple (LCM) to monomials with variables. (DOK 2)	SE: 66, 68
d.	Simplify and evaluate expressions using order of operations and use real number properties to justify solutions. (DOK 2)	SE: 206-210 Resource Book: 56-59 Practice Book A: 44, 58 Practice Book B: 62, 98

Standard	Descriptor	Page Citations
e.	Explain the rules of exponents related to multiplication and division of terms with exponents. (DOK 2)	<i>Opportunity to Address:</i> SE: 70-75 Resource Book: 36-37, 48-49
f.	Recognize and appropriately use exponential and scientific notation. (DOK 1)	SE: 5-6, 14, 16
g.	Explain and use the inverse relationship between square roots and squares. (DOK 2)	SE: 76-78 Resource Book: 36-37
Algebra		
2. Apply properties to simplify algebraic expressions, solve linear equations and inequalities, and apply principles of graphing.		
a.	Simplify and evaluate numerical and algebraic expressions. (DOK 1)	SE: 206-207 Resource Book: 56-57 Practice Book A: 13
b.	Apply properties of real numbers with an emphasis on the distributive properties of multiplication over addition and subtraction. (DOK 1)	SE: 219-221 Resource Book: 27-28, 33-34, 59-60 Practice Book A: 44-45
c.	Solve and check equations and inequalities using one variable. (DOK 2)	SE: 241-242, 258-260 Resource Book: 68-69 Practice Book A: 9

Standard	Descriptor	Page Citations
d.	Model inequalities (and their solutions) on a number line. (DOK 1)	SE: 258
e.	Graph linear equations and non-linear equations ($y = x^2$) using multiple methods including t-tables and slope-intercept. (DOK 2)	SE: 245-247, 249-253 Resource Book: 60-61, 68-69 Practice Book B: 24
f.	Given a linear graph, identify its slope as positive, negative, undefined, or zero, and interpret slope as rate of change. (DOK 2)	SE: 248 Resource Book: 60-61
g.	Determine slope, x-intercept, and y-intercept from a graph and/or equation in slope-intercept or standard form. (DOK 1)	SE: 248, 250 Resource Book: 60-61
h.	Add, subtract, and multiply monomials and binomials. (DOK 1)	<i>This standard is outside the scope of Math on Call</i>
i.	Predict characteristics of a graph given an equation or t-table. (DOK 2)	<i>This standard is outside the scope of Math on Call</i>

Standard	Descriptor	Page Citations
Geometry		
3. Identify and apply geometric principles to polygons, angles, and two- and three-dimensional figures.		
a.	Locate and identify angles formed by parallel lines cut by a transversal(s) (e.g., adjacent, vertical, complementary, supplementary, corresponding, alternate interior, and alternate exterior). (DOK 1)	SE: 332-338 Practice Book A: 10, 42
b.	Find missing angle measurements for parallel lines cut by a transversal(s) and for a vertex of a polygon. (DOK 1)	SE: 338, 341
c.	Explain the Pythagorean Theorem and apply it to solve routine and non-routine problems. (DOK 3)	SE: 359 Resource Book: 64-65 Practice Book B: 44, 47, 103
d.	Solve real-world and non-routine problems involving congruent and similar figures. (DOK 3)	SE: 376-378, 381-383
e.	Use two-dimensional representations (nets) of three-dimensional objects to describe objects from various perspectives. (DOK 2)	SE: 395, 406, 411, 416 Resource Book: 92-93

Standard	Descriptor	Page Citations
Measurement		
4. Understand measurable attributes of objects and apply various formulas in problem solving situations.		
a.	Solve real-world application problems that include length, area, perimeter, and circumference using standard measurements. (DOK 2)	SE: 35, 346, 354, 365-366, 372 Resource Book: 84-85, 90-91 Practice Book A: 11, 63-64 Practice Book B: 38, 46-47, 63
b.	Develop, analyze, and explain methods for solving problems involving proportions, such as scaling and finding equivalent ratios. (DOK 3)	SE: 377, 424, 428-432, 434, 440 Resource Book: 96-97, 100-101 Practice Book A: 50, 56, 65, 85 Practice Book B: 61, 83, 104
c.	Use formulas and/or appropriate measuring tools to find length and angle measures (to appropriate levels of precision), perimeter, area, volume, and surface area of polygons, circles, spheres, cones, pyramids, and composite or irregular figures. (DOK 1)	SE: 330, 346-347, 397-398, 401-402, 512-513 Resource Book: 66-67 Practice Book A: 31, 60, 69, 77 Practice Book B: 39, 41-43, 49-51, 65, 69, 77, 85

Standard	Descriptor	Page Citations
Data Analysis & Probability		
5. Interpret, organize, and make predictions about a variety of data using concepts of probability.		
a.	Use a given mean, mode, median, and range to summarize and compare data sets including investigation of the different effects that change in data values have on these measures. (DOK 2)	SE: 272-276 Practice Book A: 22-23, 103 Practice Book B: 13
b.	Select the appropriate measures of central tendency for a particular purpose. (DOK 2)	SE: 273 Practice Book A: 23
c.	Make and list conjectures by calculating probability for experimental or simulated contexts. (DOK 3)	SE: 463-464, 466 Resource Book: 110-113, 116-117 Practice Book B: 66, 105
d.	Construct and interpret scatter plots to generalize trends from given data sets. (DOK 3)	SE: 305 Resource Book: 76-77, 80-81 Practice Book A: 22 Practice Book B: 25