

Great Source Education

Algebra to Go

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correlated to

**Mississippi Mathematics Framework
Algebra 1**

Explanation Of Correlation

The following document is a correlation of **Great Source Education, *Algebra to Go*** 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
Algebra to Go © 2006
 correlated to

Mississippi Mathematics Framework (2007)
Algebra I

Standard	Descriptor	Page Citations
Number and Operations		
1. Understand relationships between numbers and their properties and perform operations fluently.		
a.	Apply properties of real numbers to simplify algebraic expressions, including polynomials. (DOK 1)	SE: 103-106, 121 Resource Book: 58-60
b.	Use matrices to solve mathematical situations and contextual problems. (DOK 2)	SE: 310-315, 450 Resource Book: 180-182
Algebra		
2. Understand, represent, and analyze patterns, relations, and functions.		
a.	Solve, check, and graph multi-step linear equations and inequalities in one variable, including rational coefficients in mathematical and real-world situations. (DOK 2)	SE: 129, 153-160, 200-204 Resource Book: 63, 78-80, 108-111
b.	Solve and graph absolute value equations and inequalities in one variable. (DOK 2)	SE: 130, 199, 201 Resource Book: 63, 102-105
c.	Analyze the relationship between x and y values, determine whether a relation is a function, and identify domain and range. (DOK 2)	SE: 131, 134-136 Resource Book: 66-67, 70-73

Standard	Descriptor	Page Citations
d.	Explain and illustrate how a change in one variable may result in a change in another variable and apply to the relationships between independent and dependent variables. (DOK 2)	SE: 131, 137, 148, 223 Resource Book: 66, 71, 77-78
e.	Graph and analyze linear functions. (DOK 2)	SE: 140 Resource Book: 70-73
f.	Use algebraic and graphical methods to solve systems of linear equations and inequalities in mathematical and real-world situations. (DOK 2)	SE: 161-168, 206 Resource Book: 83-85, 108-111
g.	Add, subtract, multiply, and divide polynomial expressions. (DOK 1)	SE: 102, 118, 121 Resource Book: 58-60
h.	Factor polynomials by using Greatest Common Factor (GCF) and factor quadratics that have only rational roots. (DOK 1)	SE: 21, 182-183, 188-189 Resource Book: 19, 96
i.	Determine the solutions to quadratic equations by using graphing, tables, completing the square, the Quadratic formula, and factoring. (DOK 1)	SE: 176-179, 180-185 Resource Book: 94-97
j.	Justify why some polynomials are prime over the rational number system. (DOK 2)	Resource Book: 90-91
k.	Graph and analyze absolute value and quadratic functions. (DOK 2)	SE: 141-142 Resource Book: 72, 76-77
l.	Write, graph, and analyze inequalities in two variables. (DOK 2)	SE: 201-205 Resource Book: 108-111

Standard	Descriptor	Page Citations
Geometry		
3. Understand how algebra and geometric representations interconnect and build on one another.		
a.	Apply the concept of slope to determine if lines in a plane are parallel or perpendicular. (DOK 2)	SE: 222 Resource Book: 118
b.	Solve problems that involve interpreting slope as a rate of change. (DOK 2)	SE: 223 Resource Book: 118
Measurement		
4. Demonstrate and apply various formulas in problem-solving situations.		
a.	Solve real-world problems involving formulas for perimeter, area, distance, and rate. (DOK 2)	SE: 282 <i>Opportunity to Address:</i> SE: 465-467 Resource Book: 163
b.	Explain and apply the appropriate formula to determine length, midpoint, and slope of a segment in a coordinate plane. (i.e., distance formula, Pythagorean Theorem). (DOK 2)	SE: 213, 222, 245 Resource Book: 116-118
c.	Represent polynomial operations with area models. (DOK 2)	SE: 104, 108, 182

Standard	Descriptor	Page Citations
Data Analysis & Probability		
5. Represent, analyze and make inferences based on data with and without the use of technology.		
a.	Draw conclusions and make predictions from scatter plots. (DOK 3)	SE: 361 Resource Book: 198
b.	Use linear regression to find the line-of-best fit from a given set of data. (DOK 3)	SE: 362 Resource Book: 198