

***Great Source Education***

# **Geometry to Go**

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**correlated to**

**Mississippi Mathematics Framework  
Geometry**

## **Explanation Of Correlation**

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

**Mississippi Mathematics Framework (2007)**  
**Geometry**

Standard	Descriptor	Page Citations
<b>Number and Operations</b>		
<b>1. Compute and determine the reasonableness of a result in mathematical and real-world situations with and without technology.</b>		
a.	Apply problem-solving skills to solve and verify the solutions for unknown measures in similar polygons. (DOK 2)	SE: 223-225 Resource Book: 120
b.	Given exact irrational solutions, determine the best rational estimation. (DOK 2)	SE: 238
c.	Solve real-world or application problems that involve square roots and the Pythagorean Theorem. (DOK 3)	SE: 152 Resource Book: 79-80
<b>Algebra</b>		
<b>2. Understand relations, functions, and patterns. Analyze change using various geometric properties.</b>		
a.	Represent data from geometric and real-world contexts with expressions, formulas, tables, charts, graphs, relations, and functions. (DOK 2)	SE: 116, 117-118 Resource Book: 60, 63
b.	Recognize and write the equation of a circle in standard form $(x-h)^2 + (y-k)^2 = r^2$ and identify the center and radius. (DOK 2)	SE: 113, 298 Resource Book: 59, 166
c.	Use slope to analyze and write equations for parallel and perpendicular lines. (DOK 2)	SE: 107-108 Resource Book: 54-56
d.	Apply the Midpoint and Distance Formulas to solve application problems involving the coordinate plane. (DOK 2)	SE: 89-93, 123-124 Resource Book: 48-50, 66

Standard	Descriptor	Page Citations
e.	Determine the effects of rigid (translations, rotations, and reflections) and non-rigid (dilations) motions and compositions when performed on objects on the coordinate plane. (DOK 2)	SE: 278, 289, 293 Resource Book: 152-155, 158
<b>Geometry</b>		
<b>3. Investigate, apply, and prove properties and theorems from postulates and definitions related to angles, lines, circles, polygons, and two- and three-dimensional figures. Explore applications of patterns and transformational geometry.</b>		
a.	Use inductive reasoning to make conjectures and deductive reasoning to make valid conclusions. (DOK 3)	SE: 5-7 Resource Book: 10
b.	Develop and evaluate mathematical arguments and proofs to include paragraph, two-column, and flow chart forms. (DOK 3)	SE: 38, 41, 44-45 Resource Book: 20-23
c.	Identify, classify, and apply angle relationships formed by parallel lines cut by transversals. (DOK 2)	SE: 75-80 Resource Book: 40
d.	Use the properties of altitudes, medians, angle bisectors, and perpendicular bisectors of triangles to solve problems. (DOK 2)	SE: 56, 61, 73, 136-140 Resource Book: 32, 39, 77-78
e.	Classify triangles and apply postulates and theorems to test for triangle inequality, congruence, and similarity. (DOK 2)	SE: 134, 148-149, 226-230, 260-270 Resource Book: 80, 120-122, 140, 144-147
f.	Determine and justify if a given shape could be tessellated. (DOK 2)	SE: 296 Resource Book: 161
g.	Describe and draw cross-sections of prisms, cylinders, pyramids, and cones. (DOK 1)	SE: 337 Resource Book: 185
h.	Graph a vector and determine the magnitude and direction of a given vector. (DOK 2)	SE: 289 Resource Book: 154-155
i.	Given the pre-image or image, find figures obtained by applying reflections, translations, rotations, and dilations;	SE: 274-278, 281-283, 286-287, 289, 292-293

Standard	Descriptor	Page Citations
	describe and justify the method used. (DOK 2)	Resource Book: 152-155, 158
<b>Measurement</b>		
<b>4. Select and apply various strategies, tools, and formulas to calculate length, surface area, volume, and angle measurements.</b>		
a.	Use the properties of circles using arc, angle, and segment relationships to find missing measures. (DOK 2)	SE: 177, 191-192, 307 Resource Book: 160, 173-175
b.	Solve real-world applications and mathematical problems to find missing measurements in right triangles by applying special right triangle relationships, geometric means, or trigonometric functions. (DOK 2)	SE: 152, 235-236, 238-239, 245-246 Resource Book: 79, 125-127, 130-132
c.	Solve real-world and mathematical problems involving the lateral area, surface area and volume of three-dimensional figures, including prisms, cylinders, cones, pyramids, and spheres. (DOK 2)	SE: 195-201, 204, 207-210 Resource Book: 106-107, 110-111
d.	Explain and use the properties of 45-45-90 and 30-60-90 triangles. (DOK 2)	SE: 237-239 Resource Book: 126-127
e.	Apply the relationships of sine, cosine, and tangent to problems involving right triangles. (DOK 2)	SE: 240-241 Resource Book: 130-132
<b>Data Analysis &amp; Probability</b>		
<b>5. Represent, analyze, and make inferences based on data with and without the use of technology.</b>		
a.	Apply multiple strategies and representations, including area models, to solve probability problems. (DOK 2)	SE: 203, 343 Resource Book: 107