

Great Source Education

Math to Know

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correlated to

**Mississippi Mathematics Framework
Grade 4**

Explanation Of Correlation

The following document is a correlation of **Great Source Education, *Math to Know*** 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 to Know* © 2006**
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Mississippi Mathematics Framework (2007)
Grade 4

Standard	Descriptor	Page Citations
Number and Operations		
1. Understand relationships among numbers, use the four basic operations, compute fluently, and make reasonable estimates.		
a.	Add and subtract up to five-digit whole numbers with and without regrouping. (DOK 1)	SE: 146-151, 153, 160-164, 166-167 Resource Book: 78-79, 82-83 Practice Book A: 11, 39-40, 42, 44-45, 57, 94, 99, 101, 104 Practice Book B: 60, 65
b.	Add and subtract decimals through hundredths. (DOK 1)	SE: 154-158, 168-171 Resource Book: 79, 84 Practice Book B: 50, 59, 104
c.	Explain two or more methods of multiplying whole numbers (one- and two-digits) with justification. (DOK 2)	SE: 62-73, 174-175, 180-183 Resource Book: 32-36, 87-90 Practice Book A: 11, 41-43, 61, 105 Practice Book B: 10, 13, 39, 68, 96-97
d.	Explain two or more methods of dividing four-digit dividends by one- and two-digit divisors, with and without remainders, and justify the processes. (DOK 2)	SE: 127 Resource Book: 68 Practice Book A: 46, 56, 61 Practice Book B: 42, 50-51, 66, 100-101

Standard	Descriptor	Page Citations
e.	Add and subtract fractions with like denominators. (DOK 1)	SE: 228, 230, 232, 234 Resource Book: 114-117 Practice Book A: 40, 60 Practice Book B: 40, 58, 105
f.	Model and identify equivalent fractions. (DOK 2)	SE: 220 Resource Book: 109 Practice Book B: 5
g.	Represent equivalence relationships between fractions and decimals using concrete materials, diagrams, or other models. (DOK 1)	SE: 30 Resource Book: 19
h.	Estimate products and quotients of whole numbers to include strategies such as rounding. (DOK 2)	SE: 136-139 Resource Book: 72-73 Practice Book A: 84-87, 95 Practice Book B: 86-87
i.	Recall multiplication and division facts. (DOK 1)	SE: 60-63, 66, 75-77 Resource Book: 45-50, 52-54 Practice Book A: 60, 65
j.	Compose and decompose five-digit numbers and decimal numbers through hundredths, with representations in words, physical models, and expanded and standard forms. (DOK 1)	SE: 24-25 Resource Book: 10, 18 Practice Book A: 6 Practice Book B: 6

Standard	Descriptor	Page Citations
k.	Determine and use benchmark numbers such as 0, 0.5 ($\frac{1}{2}$), and 1 to judge the magnitude of whole numbers, decimals, and fractions. (DOK 2)	SE: 214 Resource Book: 107
l.	Model factors and multiples of whole numbers. (DOK 1)	SE: 96-97 Resource Book: 56-57
Algebra		
2. Analyze and represent patterns, number relationships, and functions using algebraic symbols. Demonstrate an understanding of the properties of the basic operations.		
a.	Analyze a given numeric pattern and generate a similar pattern. (DOK 2)	SE: 90 Resource Book: 56 Practice Book A: 59
b.	Determine the value of variables in equations; justify the process used to make the determination. (DOK 2)	SE: 255-257 Resource Book: 134-135
c.	Construct input/output function tables and generalize the rule using words, models, and symbols. (DOK 3)	SE: 261 Resource Book: 142-143

Standard	Descriptor	Page Citations
d.	Explain the properties of the basic operations using models, numbers, and variables: (DOK 2)	
•	Zero property of multiplication	SE: 247 Resource Book: 127
•	Associative properties of addition and multiplication	SE: 242-243 Resource Book: 128
•	Commutative properties of addition and multiplication	SE: 240-241 Resource Book: 128
•	Identity properties of addition and multiplication	SE: 246 Resource Book: 126-127
•	Distributive properties of multiplication over addition and subtraction	SE: 244-245 Resource Book: 126
e.	Demonstrate and explain the inverse operations of addition/subtraction and multiplication/division. (DOK 2)	SE: 49, 77 Resource Book: 28, 40

Standard	Descriptor	Page Citations
Geometry		
3. Analyze characteristics, properties, and relationships of two- and three-dimensional geometric shapes. Use coordinate geometry.		
a.	Analyze and describe the similarities and differences between and among two- and three-dimensional geometric shapes, figures, and models using mathematical language. (DOK 2)	<i>This standard is outside the scope of Math to Know</i>
b.	Identify and analyze the relationships between and among points, lines, line segments, angles, and rays. (DOK 2)	SE: 302-303, 305-306, 308-309 Resource Book: 166-167
c.	Identify transformations (rotations [turns], reflections [flips], and translations [slides]) of two-dimensional figures. (DOK 1)	SE: 318-319 Resource Book: 174 Practice Book A: 69
d.	Locate ordered pairs in the first quadrant of the coordinate plane. (DOK 1)	SE: 258-259, 261 Resource Book: 138-139 Practice Book B: 76

Standard	Descriptor	Page Citations
Measurement		
4. Evaluate and justify measurable attributes of objects, units, systems, and processes. Perform measurements.		
a.	Estimate and measure a given object to the nearest eighth of an inch. (DOK 2)	<i>Opportunity to Address:</i> SE: 346 Resource Book: 190
b.	Convert capacity, weight/mass, and length within the English and metric systems of measurement. (DOK 1)	SE: 346-347, 356-357, 358-359 Resource Book: 190-191, 199, 202
c.	Describe relationships of rectangular area to numerical multiplication. (DOK 2)	SE: 352-353 Resource Book: 195 Practice Book B: 57, 79
d.	Use appropriate tools to determine, estimate, and compare units for measurement of weight/mass, area, size of angle, temperature, length, distance, and volume in English and metric systems and time in real-life situations. (DOK 1)	SE: 346-347, 350, 354, 358-359, 360-361 Resource Book: 190-191, 195-196, 202, 205, 208-209 Practice Book A: 30

Standard	Descriptor	Page Citations
Data Analysis & Probability		
5. Formulate and analyze data. Evaluate inferences and predictions.		
a.	Draw, label, and interpret bar graphs, line graphs, and stem-and-leaf plots. (DOK 2)	SE: 274, 279, 280 Resource Book: 150-153
b.	Find and interpret the mean, mode, median, and range of a set of data. (DOK 1)	SE: 285-290 Resource Book: 156-157
c.	Compare data and interpret quantities represented on tables and graphs including line graphs, bar graphs, frequency tables, and stem-and-leaf plots to make predictions and solve problems based on the information. (DOK 3)	SE: 267, 273-274, 278-279, 280-281 Resource Book: 150, 152-153 Practice Book A: 22-23, 26-27, 48, 62, 66, 76-77 Practice Book B: 23, 25-27