

Great Source Education

Math In Focus

Grade 4

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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 in Focus*** 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

TE-A *Teacher's Edition A*

TE-B *Teacher's Edition B*

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Mississippi Mathematics Framework (2007)
Grade 4

Standard	Descriptor	Page Citations
Standard 1	Number and Operations	
Competencies and Objectives		
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)	TE-A: 32-35, 41-43, 43A-43B
b.	Add and subtract decimals through hundredths. (DOK 1)	TE-B: 56-64, 64B, 65-71, 71A-71B, 72-76, 76A, 77-79
c.	Explain two or more methods of multiplying whole numbers (one- and two-digits) with justification. (DOK 2)	TE-A: 45, 77-85, 85A, 86-91, 110
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)	TE-A: 96-100, 100A-100B, 101-108, 108A
e.	Add and subtract fractions with like denominators. (DOK 1)	TE-A: 224-226, 227-229
f.	Model and identify equivalent fractions. (DOK 2)	TE-A: 224-229, 236, 250-254, 259-262, 267-269, 273
g.	Represent equivalence relationships between fractions and decimals using concrete materials, diagrams, or other models. (DOK 1)	TE-B: 2-3, 12-12A, 23A, 13-23, 23A, 42-43, 46-47, 51-52

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Standard	Descriptor	Page Citations
h.	Estimate products and quotients of whole numbers to include strategies such as rounding. (DOK 2)	TE-A: 35-43, 43A-43B
i.	Recall multiplication and division facts. (DOK 1)	TE-A: 44-54, 54A, 55, 56-61, 61A, 64-67
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)	TE-A: 2-4, 5-9, 9A, 11, 12-13, 13A TE-B: 4-12, 12A, 13-23, 23A
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)	TE-A: 2-4, 5-9, 9A, 11, 12-13, 13A, 221-223, 232 TE-B: 4-12, 12A, 13-23, 23A
l.	Model factors and multiples of whole numbers. (DOK 1)	TE-A: 44-54, 54A, 55, 56-61, 61A, 65-67

Standard	Descriptor	Page Citations
Standard 2	Algebra	
Competencies and Objectives		
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)	TE-A: 6, 8, 9A, 16, 19, 20A-20B, 63A, 68B TE-B: 26-30, 34, 34A, 52
b.	Determine the value of variables in equations; justify the process used to make the determination. (DOK 2)	This objective is addressed in Grade 5: TE-A: 208-245
c.	Construct input/output function tables and generalize the rule using words, models, and symbols. (DOK 3)	This objective is addressed in Grade 5: TE-A: 204
d.	Explain the properties of the basic operations using models, numbers, and variables: (DOK 2)	
•	Zero property of multiplication	This objective is addressed in Grade 5: TE-A: 144-145, 205
•	Associative properties of addition and multiplication	This objective is addressed in Grade 5: TE-A: 55, 59, 78-79, 205
•	Commutative properties of addition and multiplication	TE-A: 45
•	Identity properties of addition and multiplication	This objective is addressed in Grade 5: TE-A: 166, 205
•	Distributive properties of multiplication over addition and subtraction	This objective is addressed in Grade 5: TE-A: 65, 67, 109, 178, 191, 205
e.	Demonstrate and explain the inverse operations of addition/subtraction and multiplication/division. (DOK 2)	TE-A: 37-40, 43, 43B, 53, 55, 105-108, 119

Standard	Descriptor	Page Citations
Standard 3	Geometry	
Competencies and Objectives		
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)	TE-B: 125-138, 138A, 139-143, 143A, 143B Three dimensional figures are presented on Grade 5: TE-B: 229-245, 245A, 246-251, 25A, 252-255, 255A
b.	Identify and analyze the relationships between and among points, lines, line segments, angles, and rays. (DOK 2)	TE-B: 81-84, 85-93, 93A, 105-110, 111-114, 114A, 115-118, 118A, 119-121, 121A-121B, 122-124, 124A
c.	Identify transformations (rotations [turns], reflections [flips], and translations [slides]) of two-dimensional figures. (DOK 1)	TE-B: 221-227, 227A, 228-235, 235A-235C, 236-239, 239A-239C
d.	Locate ordered pairs in the first quadrant of the coordinate plane. (DOK 1)	TE-A: 140-144, 148-150, 157-158, 158A, 158C

Standard	Descriptor	Page Citations
Standard 4	Measurement	
Competencies and Objectives		
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)	Measurement to the nearest $\frac{1}{2}$ inch is addressed in Grade 3: TE-B: 171-175, 185A
b.	Convert capacity, weight/mass, and length within the English and metric systems of measurement. (DOK 1)	Converting within a measurement system is addressed in Grade 3: TE-B: 35-37, 37A, 39-41, 46-47, 47A, 54-55, 55A, 63-66, 68, 668A, 69, 71, 74, 74A, 165, 176, 179, 182-183, 185B, 191, 198, 203-210, 210B, 211A, 212-214, 217-218, 220, 228-232, 232A, 234-235, 236A, 237, 239, 240A, 250-251, 258A-258B
c.	Describe relationships of rectangular area to numerical multiplication. (DOK 2)	TE-A: 44-45, 152-157, 161
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)	Measurement is addressed in Grade 3: TE-B: 31-34, 35-37, 37A, 38-41, 41A, 42-47, 47A, 48-55, 55A, 56, 56A, 57-58, 163-167, 168-185, 185A-185B, 186-201, 201A, 202-210, 210A, 211, 211A, 213

Standard	Descriptor	Page Citations
Standard 5	Data Analysis and Probability	
Competencies and Objectives		
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)	TE-A: 128-129, 131, 131, 133-134, 150, 150A, 151, 158, 158A-158D, 204-209, 214A-214C, 218, 273D
b.	Find and interpret the mean, mode, median, and range of a set of data. (DOK 1)	TE-A: 165-173, 173A-173B, 174-186, 186A-186B
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)	TE-A: 165-173, 173A-173B, 174-186, 186A-186B, 187-191, 191A