



**Gulfport School District**  
**PACING GUIDE**  
**FIFTH GRADE**  
**2009-2010**  
**MATHEMATICS**

QTR		COMPETENCY/OBJECTIVES
<b>NUMBER AND OPERATIONS</b>		
		<b>1. Analyze relationships among numbers and the four basic operations, compute fluently, and make reasonable estimates.</b>
1 whole 1 integers	2 decis 3 fracs	a. <b>Compare and order integers</b> , decimals to the nearest (DOK 1) thousandths, like and unlike fractions, and mixed numbers using $>$ , $<$ , and $=$ .
1 whole 2 decis		b. Compose and decompose seven-digit numbers and decimals through thousandths in word, standard, and expanded forms. (DOK 1)
1		c. Identify factors and multiples of whole numbers. (DOK 1) <ul style="list-style-type: none"> <li>• <b>(Qtr 1) GSD 1:</b> Use divisibility rules of 2, 3, 5, 6, 10.</li> </ul>
1		d. Model and distinguish between prime and composite numbers, <i>including GCF multiples and common multiples including LCM</i> . (DOK 1)
3		e. Model, identify, and write equivalent fractions including conversion of improper fractions and mixed numerals and vice versa. (DOK 1)
		f. Add, subtract, multiply, and divide (with and without remainders) using non-negative rational numbers. (DOK 1) <ul style="list-style-type: none"> <li>• <b>(Qtr 1) GSD 2:</b> Multiply up to four-digit factors by two-digit factors to include whole and decimal numbers.</li> <li>• <b>(Qtr 2) GSD 2:</b> Multiply up to four-digit factors by two-digit factors to include decimal numbers.</li> <li>• <b>(Qtr 1) GSD 3:</b> Divide by two-digit whole-number divisors with and without remainders.</li> <li>• <b>(Qtr 3) GSD 4:</b> Add, subtract, multiply, and divide like/unlike fractions and mixed numerals.</li> <li>• <b>(Qtr 2) GSD 5:</b> Add, subtract, and multiply decimal numbers up to 3 decimal places and divide decimal numbers by 2-digit whole number divisors.</li> </ul>
1 whole 1 integers 2 decis 3 fracs	1 whole 1 integers 2 decis 3 fracs	g. Estimate sums, differences, products and quotients of non-negative rational numbers to include strategies such as front-end rounding, benchmark numbers, compatible numbers, and rounding. (DOK 2) <ul style="list-style-type: none"> <li>→ • <b>GSD 6:</b> Locate numbers such as fractions, decimals and whole numbers on a number line.</li> </ul>
3		<b>GSD 7:</b> Model and show relationships among common fractions, decimals, and percents (10%, 20%, 25%, and 50%).
3		<b>GSD 8:</b> Develop the terminology relating to percent and compute percentages of 10, 20, 25, and 50 percent of a number.
3		<b>GSD 9:</b> Illustrate and interpret circle graphs using percentages.
2		<b>GSD 10:</b> Solve multi-step word problems to include money using the four basic operations with computation and/or estimation.



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<b>ALGEBRA</b>		
		<b>2. Explain and analyze number relationships and functions using algebraic symbols, and demonstrate an understanding of the properties of the basic operations.</b>
1 intro 3 test		a. Determine the value of variables in equations and inequalities, justifying the process. (DOK 2)
1		b. Devise a rule for an input/output function table, describing it in words and symbols. (DOK 2)
1		c. Apply the properties of basic operations to solve problems: (DOK 2) <ul style="list-style-type: none"> <li>• Zero property of multiplication</li> <li>• Commutative property of addition and multiplication</li> <li>• Associative property of addition and multiplication</li> <li>• Identity properties of addition and multiplication</li> <li>• Distributive properties of multiplication over addition and subtraction</li> </ul>
1 +,- x, ÷		e. Apply inverse operations of addition/subtraction and multiplication/division to problem solving situations. (DOK 2)
<b>GEOMETRY</b>		
		<b>3. Develop mathematical arguments about geometric relationships and describe spatial relationships using coordinate geometry.</b>
1		a. Analyze and describe the characteristics of symmetry relative to classes of polygons (parallelograms, triangles, etc.). (DOK 2) <ul style="list-style-type: none"> <li>• <b>GSD 11:</b> Identify, compare, and classify polygons to include congruent, similar, regular, and irregular shapes</li> <li>• <b>(Qtr 4) GSD 12:</b> Draw, label, and classify angles, quadrilaterals, and triangles based on their properties.</li> </ul>
1		b. Explain the relationships between coordinates in each quadrant of the coordinate plane. (DOK 2)
3 intro 4 test		c. Describe the characteristics, including the relationship of the pre-image and the image, of each type of transformation (rotations (turns), reflections (flips), and translations (slides)) of two-dimensional figures. (DOK 2)
3 intro 4 test		d. Construct and analyze two- and three-dimensional shapes to solve problems involving congruence and symmetry. (DOK 3) <ul style="list-style-type: none"> <li>• <b>GSD 13:</b> Utilize appropriate terminology and manipulatives to classify two and three-dimensional geometric figures using the attributes of faces, vertices, and edges.</li> </ul>
1		e. Label ordered pairs in the coordinate plane. (all quadrants) (DOK 1)



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2		<b>GSD 14:</b> Determine the radius, diameter, and circumference of a circle using manipulatives. Use pi (approximately 3.14) to determine the relationship of circumference to diameter.
<b>MEASUREMENT</b>		
		<b>4. Develop concepts and apply appropriate tools and techniques to determine units of measure.</b>
2 milli 3 inch		a. Estimate and measure length to nearest millimeter in the metric system and <b><u>one-sixteenth</u></b> inch in the English system. (DOK 2)
2		b. Convert units within a given measurement system to include length, weight/mass, and volume.
2		c. Develop, compare, and use formulas to estimate and calculate the perimeter and area of rectangles, triangles, and parallelograms. (DOK 2)
2		d. Select and apply appropriate units for measuring length, mass, volume, and temperature in the standard (English and metric) systems. (DOK 1)
<b>DATA ANALYSIS and PROBABILITY</b>		
		<b>5. Interpret and analyze data and make predictions.</b>
4		a. Use the mean, median, mode, and range to analyze a data set. (DOK 2)
4		b. Compare data and interpret quantities represented on tables and graphs, including line graphs, stem-and-leaf plots, histograms, and box-and-whisker plots to make predictions, and solve problems based on the information. (DOK 2)