

CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE 2007 REVISED MS MATHEMATICS FRAMEWORK

Grade Level: 6TH **Subject:** Mathematics **Term:** August 8 – October 12, 2007

*LEVELS: I = INTRODUCTORY M = MASTERY O = ONGOING
 Competencies (Bold/Italics/Underlined) Objectives (Bold) Benchmarks (Unbold)

The teacher will model the objective, work through a guided practice, and assign independent practice for each of the following objectives:

Weekly Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Benchmarks	Competencies/Objectives/ Assessments (# and types)		Strategies/Resources
				SPMS (Vantage)	Assessment	
	<i>District / State</i>		<i>Description</i>			<i>Strategies/ Resources</i>
8/8-8/10			Classroom procedures and handbook policies			
	<u>M.6.1</u>		<u>Analyze numbers using place value and prime factorization. Solve problems involving basic operations of rational numbers.</u>			
8/13-8/17	M. 6.1.a	M	Compare and order rational numbers using symbols (<, >, and =) and a number line. (DOK 1)			
8/20-8/24	M. 6.1.i	M	Multiply four-digit numbers by two-digit numbers (including whole numbers and decimals). (DOK 2)			
8/27 – 8/31	M.6.1.b	M	Use estimation strategies to determine the reasonableness of results in a variety of situations including rational number computations. (DOK 2)			

9/4-9/7	M. 6.1.j	M	Explain the meaning of multiplication and division of rational numbers. (DOK 2)			
9/10-9/14	M. 6.1.e	M	Solve problems by dividing whole and decimal numbers by decimals and interpret the quotient and remainder within the problem context. (DOK 2)			
9/17-9/21	M. 6.1.c	M	Determine the Greatest Common Factor (GCF) and Least Common Multiple (LCM) of two numbers. (DOK 2)			
9/24-9/28	M. 6.1.d	M	Compute using basic operations with fractions and mixed numbers. Express answers in the simplest form. (DOK 1)			
10/1 – 10/5			Review Week			
10/8 – 10/12			Nine Weeks' Tests			

**CARROLL COUNTY SCHOOL DISTRICT
CURRICULUM WEEKLY PACING GUIDE
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Grade Level: 6TH **Subject:** Mathematics **Term:** Oct. 16 – Dec. 20, 2007

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 Competencies (Bold/Italics/Underlined) Objectives (Bold) Benchmarks (Unbold)

The teacher will model the objective, work through a guided practice, and assign independent practice for each of the following objectives:

10/16- 10/19	M. 6.1.h	M	Solve problems by finding the percentage of a number including percentages greater than 100 and less than. (DOK 2)			
10/22- 10/26	M. 6.1.f	M	Explain the relationship(s) among fractions, decimals, and percents and model and represent a specific quantity in multiple ways. (DOK 2)			

10/29-11/2	M. 6.1.g	M	Model addition and subtraction of integers with physical materials and the number line. (DOK 2)			
11/5-11/9	M.6.1.k	<u>M</u>	Explain the meaning and relationship between absolute value and opposites. (DOK 2)			
	<u>M.6.2</u>		<u>Use algebraic functions, patterns, and language across a variety of contexts.</u>			
11/12-11/16	M.6.2.a	M/O	Solve simple equations using guess-and-check, diagrams, properties, or inspection, explaining the process used. (DOK 2)			
11/26-11/30	M.6.2.b	M	Complete a function table based on a given rule. (DOK 2)			
11/26-11/30	M. 6.2.e	M	Describe a rule for a function table using words, symbols, and points on a graph and vice versa. (DOK 2)			
12/3-12/7	M.6.2.c	M	Formulate algebraic expressions, equations, and inequalities to reflect a given situation. (DOK 2)			
12/10-12/14	M.6.2.d	<u>M/O</u>	State the following properties using variables and apply them in solving problems: (DOK 1)			
12/10-12/14	M. 6.2.d	M/O	• Zero property of multiplication			
12/10-12/14	M. 6.2.d	MO	• Inverse properties of addition/subtraction and multiplication/division			
12/10-12/14	M. 6.2.d	M/O	• Commutative and associative properties of addition and multiplication			

12/10-12/14	M. 6.2.d	M/O	• Identity properties of addition and multiplication			
12/10-12/14	M. 6.2.d	M/O	• Distributive properties of multiplication over addition and subtraction			
12/17 – 12/20			Nine Weeks' Tests			

**CARROLL COUNTY SCHOOL DISTRICT
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Grade Level: 6TH **Subject:** Mathematics **Term:** Jan. 7 - Mar. 14, 2008

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Competencies (Bold/Italics/Underlined) Objectives (Bold) Benchmarks (Unbold)

The teacher will model the objective, work through a guided practice, and assign independent practice for each of the following objectives:

	<u>M. 6.4</u>		<u>Apply geometric formulas and standard (English and metric) units of measurement in mathematical and real-life situations.</u>			
1/7-1/11	M. 6.4.a	M	Convert units within a given measurement system to solve problems. (DOK 1)			
1/14-1/18	M. 6.4.b	M	Calculate the perimeter and area of regular and irregular shapes using a variety of methods. (DOK 2)			
1/22-1/25	M. 6.4.e	M	Predict and calculate the volume of prisms. (DOK 2)			

1/28-2/1	M. 6.4.c	M	Determine the radius, diameter, and circumference of a circle. (DOK 1)			
1/28-2/1	M. 6.4.g	M	Explain the relationship of circumference of a circle to its diameter, linking to pi. (DOK 1)			
2/4-2/8	M. 6.4.d	M	Use scale factors to perform dilations and to solve ratio and proportion problems. (DOK 2)			
2/11-2/15	M. 6.4.f	M	Apply techniques and tools to accurately find length, area, and angle measures to appropriate levels of precision. (DOK 1)			
2/19-2/22	M. 6.3.d	M	Identify, estimate, and compare right, acute, and obtuse angles. (DOK 1)			
	<u>M. 6.3</u>		<u>Analyze geometric relationships of lines, angles, two- and three-dimensional shapes, and transformations.</u>			
2/25-2/29	M. 6.3.a	M	Compare, classify, and construct transformations (reflections, translations, and rotations). (DOK 3)			
3/3-3/7	M.6.3.b	M	Construct three-dimensional figures using manipulative and generalize the relationships among vertices, faces, and edges (such as Euler's Formula). (DOK 3)			
3/3-3/7	M. 6.3.c	M	Draw, label, and classify polygons to include regular and irregular shapes. Identify congruent and symmetrical figures. (DOK 1)			
3/10 – 3/14			Nine Weeks' Tests			

CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE 2007 REVISED MS MATHEMATICS FRAMEWORK

Grade Level: 6TH **Subject:** Mathematics **Term:** Mar. 25 – May 21, 2008

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 Competencies (Bold/Italics/Underlined) Objectives (Bold) Benchmarks (Unbold)

The teacher will model the objective, work through a guided practice, and assign independent practice for each of the following objectives:

3/25- 3/28	M.6.3.e	M	Explain the relationships between corresponding parts of the pre-image and image of dilation. (DOK 2)			
	<u><i>M. 6.5</i></u>		<u><i>Organize, interpret, analyze, and display data to predict trends.</i></u>			
3/31-4/4	M. 6.5.b	M	Determine how changes in data affect mean, median, mode, and range. (DOK 2)			

4/7-4/11	M. 6.5.a	M	Construct, interpret, and explain line graphs, double bar graphs, frequency plots, stem-and-leaf plots, histograms, and box-and-whisker plots. (DOK 2)			
4/7-4/11	M. 6.5.c	M	Predict trends based on graphical representation. (DOK 3)			
4/14-4/18	<u>M. 6.4</u>		<u>Apply geometric formulas and standard (English and metric) units of measurement in mathematical and real-life situations.</u>			
4/21-4/25	<u>M. 6.3</u>		<u>Analyze geometric relationships of lines, angles, two- and three-dimensional shapes, and transformations.</u>			
4/28-5/2	<u>M.6.1</u>		<u>Analyze numbers using place value and prime factorization. Solve problems involving basic operations of rational numbers.</u>			
5/5-5/9	<u>M.6.2</u>		<u>Use algebraic functions, patterns, and language across a variety of contexts.</u>			
5/12-5/16	<u>M. 6.5</u>		<u>Organize, interpret, analyze, and display data to predict trends.</u>			
5/19-5/21			Nine Weeks' Tests			