

# **Martensdale-St. Marys Community School**

## **Math Curriculum**

**Standard 1: Students can understand and apply a variety of math concepts.**  
**Grade: 5th**

<b>Benchmark; The student will:</b>	<b>Grade Level Objectives</b>	<b>Instructional Strategies</b>	<b>Assessments</b>	<b>Instructional Timeline</b>
<b>A. understand and apply number properties and operations.</b>	1.A.5.1: develop an understanding of addition, subtraction, multiplication, and division concepts and strategies for basic facts and related facts	Problem Solving activity	Teacher observation	
	1.A.5.2: develop fluency and quick recall of addition, subtraction and multiplication facts and related division facts	Internet activity and Small group flash card activity	Teacher observation	
	1.A.5.3: develop fluency with multi-digit addition, subtraction, multiplication and division facts	Individual student drills	Homework and chapter test	
	1.A.5.4: extend place value concepts to represent and compare whole numbers	Small group activity	Teacher observation, homework, and chapter test	
	1.A.5.5: develop an understanding of commonly used fractions, including recognizing and generating equivalent representations and introduce the relationship of fractions and decimals <b>(MCGF)</b>	Small group activity	Homework, chapter test	
<b>B. understand and apply concepts and procedures of algebra.</b>	1.B.5.1: represent and analyze patterns and relationships involving addition, subtraction, multiplication, and division	Small group activity	Homework, chapter test	
	1.B.5.2: identify the commutative, associative, and distributive properties and use them to compute with whole number	Small group activity	Homework, chapter test	
	1.B.5.3: represents and analyze patterns and functions, using words, tables, and graphs	Teacher led discussion	Homework, chapter test	
<b>C. understand and apply concepts of</b>	1.C.5.1: recognize and describe shapes and structures in the physical environment	Small group activity	Homework, chapter test	

<b>geometry.</b>				
	1.C.5.2: explore congruence and similarity	Small group activity	Homework, chapter test	
	1.C.5.3: predict and describe the results of sliding, flipping, and turning	Small group activity	Teacher observation	
	1.C.5.4: use geometric models to solve problems such as determining perimeter, area, volume, and surface area	Individual student tasks	Teacher observation	
	1.C.5.5: use ordered pairs on a coordinate grid to describe points	Whole group activity	Teacher observation	
<b>D. understand and apply concepts of measurement.</b>	1.D.5.1: select and apply appropriate standard (customary and metric) units and tools to measure length/distance, temperature, time, volume, weight, and the size of angles <b>(GE)</b>	Teacher led discussion	Homework, chapter test	
	1.D.5.2: select and use benchmarks (1/2 inch, 2 liters, 5 lbs., etc.) to estimate measurements	Whole group activity	Homework, chapter test	
<b>E. understand and apply concepts in probability and statistics.</b>	1.E.5.1: introduce the distribution of data using mean, median, mode and range	Individual student tasks	Homework, chapter test	
	1.E.5.2: propose and justify conclusions and predictions based on data	Teacher led discussion	Teacher observation	
	1.E.5.3: predict the <b>probability</b> of simple experiments and events and test the predictions and discuss the degree of likelihood using words such as certain, equally, likely, or impossible	Daily math review	Teacher observation	

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**Standard 2: Students can understand and apply methods of estimation.  
Grade: 5th**

<b>Benchmark: The students will:</b>	<b>Grade Level Objectives</b>	<b>Instructional Strategies</b>	<b>Assessments</b>	<b>Instructional Timeline</b>
<b>A. understand and apply concepts and procedures of standard rounding and number sense.</b>	2.A.5.1: develop the ability to estimate the results of computation with whole numbers and be able to judge reasonableness <b>(GE)</b>	Whole group activity	Teacher observation	
	2.A.5.2: round whole numbers the nearest tens, hundreds, and thousands	Individual and whole group activity	Homework and chapter test	
	2.A.5.3: estimate the answer to an addition and subtraction problems before computing and determine if the computed answer is correct	Individual and whole group activity	Homework and chapter test	
	2.A.5.4: use benchmarks to help develop number sense	Student activity	Teacher observation	

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**Standard 3: Students can solve a variety of math problems.  
Grade: 5th**

<b>Benchmark: The student will:</b>	<b>Grade Level Objectives</b>	<b>Instructional Strategies</b>	<b>Assessments</b>	<b>Instructional Timeline</b>
<b>A. solve math problems</b>	3.A.5.1: can solve single step and multiple step math problems	Daily math reviews	Teacher observation	
	3.A.5.2: identify extraneous and insufficient information in problems	Whole group discussion	Teacher observation	
<b>B. understand and apply problem-solving approaches and procedures.</b>	3.B.5.1: choose a method for solving a problem	Whole group discussion	Teacher observation	

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**Standard 4: Students can interpret data presented in a variety of ways.  
Grade: 5th**

<b>Benchmark: The student will:</b>	<b>Grade Level Objectives</b>	<b>Instructional Strategies</b>	<b>Assessments</b>	<b>Instructional Timeline</b>
<b>A. use tables and graphs to locate and read information.</b>	4.A.5.1: represent and analyze data using tallies, pictographs, table, line plots, bar graphs, circle graphs and line graphs <b>(CE)</b>	Student activity	Teacher observation and homework	
	4.A.5.2: construct and analyze tables, bar graphs, picture graphs and line plots <b>(TI)</b>	Student activity	Teacher observation and homework	
<b>B. interpret data from a variety of sources.</b>	4.B.5.1: compare different representations of the same data and evaluate how well each representation shows important aspects of the data	Student activity	Teacher observation and homework	