

Martensdale-St. Marys Community School

Math Curriculum

Standard 1: Students can understand and apply a variety of math concepts.
Grade: 6th

Benchmark; The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand and apply number properties and operations.	1.A.6.1: develop an understand of addition, subtraction, multiplication, and division concepts and strategies for basic facts and related facts	Internet activity	Teacher observation	
	1.A.6.2: develop fluency and quick recall of addition, subtraction and multiplication facts and related division facts	Small group flash card activity	Teacher observation	
	1.A.6.3: develop fluency with multi-digit addition, subtraction, multiplication and division facts	Individual student drills	Homework and chapter test	
	1.A.6.4: extend place value concepts to represent and compare whole numbers	Small group activity	Teacher observation, homework, and chapter test	
	1.A.6.5: develop an understanding of commonly used fractions, including recognizing and generating equivalent representations and introduce the relationship of fractions and decimals	Small group activity	Homework, chapter test	
B. understand and apply concepts and procedures of algebra.	1.B.6.1: represent and analyze patterns and relationships involving addition, subtraction, multiplication, and division (CE)	Small group activity	Homework, chapter test	
	1.B.6.2: identify the commutative, associative, and distributive properties and use them to compute with whole number	Small group activity	Homework, chapter test	
	1.B.6.3: represents and analyze patterns and functions, using words, tables, and graphs	Teacher led discussion	Homework, chapter test	
C. understand and apply concepts of geometry.	1.C.6.1: recognize and describe shapes and structures in the physical environment	Small group activity	Homework, chapter test	

	1.C.6.2: explore congruence and similarity	Small group activity	Homework, chapter test	
	1.C.6.3: predict and describe the results of sliding, flipping, and turning	Small group activity	Teacher observation	
	1.C.6.4: use geometric models to solve problems such as determining perimeter, area, volume, and surface area (MCGF)	Individual student tasks	Teacher observation	
	1.C.6.5: use ordered pairs on a coordinate grid to describe points	Whole group activity	Teacher observation	
<i>D. understand and apply concepts of measurement.</i>	1.D.6.1: select and apply appropriate standard (customary and metric) units and tools to measure length/distance, temperature, time, volume, weight, and the size of angles	Teacher led discussion	Homework, chapter test	
	1.D.6.2: select and use benchmarks (1/2 inch, 2 liters, 5 lbs., etc.) to estimate measurements	Whole group activity	Homework, chapter test	
<i>E. understand and apply concepts in probability and statistics.</i>	1.E.6.1: introduce the distribution of data using mean, median, mode and range	Individual student tasks	Homework, chapter test	
	1.E.6.2: propose and justify conclusions and predictions based on data	Teacher led discussion	Teacher observation	
	1.E.6.3: predict the probability 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	

**Martensdale-St. Marys Community School
Math Curriculum**

**Standard 2: Students can understand and apply methods of estimation.
Grade: 6th**

Benchmark: The students will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand and apply concepts and procedures of standard rounding and number sense.	2.A.6.1: develop the ability to estimate the results of computation with whole numbers and be able to judge reasonableness (GE)	Whole group activity	Teacher observation	
	2.A.6.2: round whole numbers the nearest tens, hundreds, and thousands	Individual and whole group activity	Homework and chapter test	
	2.A.6.3: 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, quiz, and chapter test	
	2.A.6.4: use benchmarks to help develop number sense	Student activity	Teacher observation	

**Martensdale-St. Marys Community School
Math Curriculum**

**Standard 3: Students can solve a variety of math problems.
Grade: 6th**

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. solve math problems	3.A.6.1: can solve single step and multiple step math problems	Daily math reviews	Teacher observation	
	3.A.6.2: identify extraneous and insufficient information in problems	Whole group discussion	Teacher observation	
B. understand and apply problem-solving approaches and procedures.	3.B.6.1: choose a method for solving a problem	Whole group discussion	Teacher observation	

**Martensdale-St. Marys Community School
Math Curriculum**

**Standard 4: Students can interpret data presented in a variety of ways.
Grade: 6th**

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. use tables and graphs to locate and read information.	4.A.6.1: represent and analyze data using tallies, pictographs, table, line plots, bar graphs, circle graphs and line graphs (TI)	Student activity	Teacher observation, quiz, and homework	
	4.A.6.2: construct and analyze tables, bar graphs, picture graphs and line plots	Student activity	Teacher observation, quiz, and homework	
B. interpret data from a variety of sources.	4.B.6.1: compare different representations of the same data and evaluate how well each representation shows important aspects of the data	Student activity	Teacher observation, quiz, and homework	