

Martensdale-St. Marys Community School

Math Curriculum

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

Subject: Advanced Mathematics

Benchmark; The student will;	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A) Students can understand and apply concepts and procedures of algebra.	<ol style="list-style-type: none"> 1. Understand and apply concepts and procedures of algebra 2. Understand, analyze, represent, and apply functions. 3. Understand, analyze, solve, and apply equations and inequalities. 4. Understand, analyze, transform, and apply algebraic expressions. 5. Understand, analyze, approximate, and interpret rate of change. 6. Understand and apply recursion and iteration. 7. Understand and apply some basic mathematics of decision making in a democratic society. 8. Understand and apply some basic mathematics of information processing and the Internet. 9. Understand and apply the mathematics of systematic counting. 	Teacher led Discussion Group Discussion Group Discovery Calculator Usage	Homework Homework Quizzes Mid-Chapter Quizzes Chapter Tests	
B) Students can understand and apply concepts of geometry.	<ol style="list-style-type: none"> 1. Use trigonometry based on triangles and circles to solve problems about length and angle measures. 2. Describe geometric properties, patterns, and relationships 3. Apply the concepts of perimeter, area, and volume 4. Understand and apply some basic mathematics of decision making in a democratic society. 5. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led Discussion Group Discussion Group Discovery Calculator Usage	Homework Homework Quizzes Mid-Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 4: Students can interpret data presented in a variety of ways.

Subject: Advanced Mathematics

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A) Students can interpret data from a variety of sources.	<ol style="list-style-type: none"> 1. Read amounts on scales of bar and line graphs 2. Compare quantities to determine ranks, sums, or differences and to find ratios 3. Use tables and graphs to determine rates or identify trends, understand underlying or functional relationships, and generalize or draw conclusions 4. Interpret data from a variety of sources 	Teacher led Discussion Group Discussion Group Discovery Calculator Usage	Homework Homework Quizzes Mid-Chapter Quizzes Chapter Tests	
B) Students can make inferences based on data presented in a variety of ways.	<ol style="list-style-type: none"> 1. Make inferences based on data presented in a variety of ways 2. Understand and apply some basic mathematics of decision making in a democratic society. 3. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led Discussion Group Discussion Group Discovery Calculator Usage	Homework Homework Quizzes Mid-Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 1: Students can understand and apply a variety of math concepts.
Subject: Into to Algebra/Basic Algebra/Algebra 1 & 2

Benchmark; The student will;	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A) Students can understand and apply number properties and operations.	<ol style="list-style-type: none"> 1. Represent, compare, and order numbers 2. Describe and apply properties of numbers 3. Demonstrate ways of performing operations 4. Use place value; write numbers in standard, expanded, and exponential form 5. Use and interpret operational and relational symbols 6. Understand and apply number properties and operations 	<ul style="list-style-type: none"> • Teacher led discussion • Group Discovery • Group Discussion • Calculator Usage 	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can understand and apply concepts and procedures of algebra.	<ol style="list-style-type: none"> 1. Use variable expressions to model situations 2. Explore numerical patterns 3. Understand and apply concepts and procedures of algebra 4. Understand, analyze, represent, and apply functions. 5. Understand, analyze, solve, and apply equations and inequalities. 6. Understand, analyze, transform, and apply algebraic expressions. 7. Understand, analyze, approximate, and interpret rate of change. 8. Understand and apply recursion and iteration. 9. Understand and apply some basic mathematics of decision making in a 	<ul style="list-style-type: none"> • Teacher led discussion • Group Discovery • Group Discussion • Calculator Usage 	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 3: Students can solve a variety of math problems.

Subject: Into to Algebra/Basic Algebra/Algebra 1 & 2

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A) Students can solve math problems.	<ol style="list-style-type: none"> 1. Solve single-step and multiple-step math problems 2. Identify extraneous or insufficient information in problems 	<ul style="list-style-type: none"> •Teacher led discussion •Group Discovery •Group Discussion •Calculator Usage 	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can understand and apply problem-solving approaches and procedures.	<ol style="list-style-type: none"> 1. Choose a method for solving a problem 	<ul style="list-style-type: none"> •Teacher led discussion •Group Discovery •Group Discussion •Calculator Usage 	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
C) Students can solve math problems requiring multiple steps and operations.	<ol style="list-style-type: none"> 1. Solve math problems requiring multiple steps and operations 2. Understand and apply some basic mathematics of decision making in a democratic society. 3. Understand and apply some basic mathematics of information processing and the Internet. 	<ul style="list-style-type: none"> •Teacher led discussion •Group Discovery •Group Discussion •Calculator Usage 	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
D) Students can reason quantitatively.	<ol style="list-style-type: none"> 1. Reason quantitatively 	<ul style="list-style-type: none"> •Teacher led discussion •Group Discovery •Group Discussion •Calculator Usage 	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 1: Students can understand and apply a variety of math concepts.
Subject: Consumer Math

<i>Benchmark; The student will;</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can understand and apply number properties and operations	<ol style="list-style-type: none"> 1. Represent, compare, and order numbers 2. Describe and apply properties of numbers 3. Demonstrate ways of performing operations 4. Use place value; write numbers in standard, expanded, and exponential form 5. Use and interpret operational and relational symbols 6. Understand and apply number properties and operations 7. Understand and apply some basic mathematics of decision making in a democratic society. 8. Understand and apply some basic mathematics of information processing and the Internet.. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can understand and apply concepts and procedures of algebra.	<ol style="list-style-type: none"> 1. Solve equations 2. Explore numerical patterns 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
C) Students can understand and apply concepts of measurement.	<ol style="list-style-type: none"> 1. Measure length/distance, time, temperature, weight, mass, and volume 2. Estimate measurements with appropriate precision 3. Identify and use appropriate units of measurement 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 2: Students can understand and apply methods of estimation.

Subject: Consumer Math

<i>Benchmark: The students will:</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can understand and apply concepts and procedures of standard rounding, order of magnitude, and number sense.	<ol style="list-style-type: none"> 1. Use standard rounding to estimate 2. Use order of magnitude to estimate 3. Use number sense to estimate 4. Understand and apply concepts and procedures of standard rounding, order of magnitude, and number sense 5. Evaluate reasonableness of solutions 6. Understand and apply some basic mathematics of decision making in a democratic society. 7. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 3: Students can solve a variety of math problems.

Subject: Consumer Math

<i>Benchmark: The student will:</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can solve math problems.	<ol style="list-style-type: none"> 1. Solve single-step and multiple-step math problems 2. Identify extraneous or insufficient information in problems 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can understand and apply problem-solving approaches and procedures.	<ol style="list-style-type: none"> 1. Choose a method for solving a problem 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
C) Students can solve math problems requiring multiple steps and operations.	<ol style="list-style-type: none"> 1. Solve math problems requiring multiple steps and operations 2. Understand and apply some basic mathematics of decision making in a democratic society. 3. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
D) Students can reason quantitatively	<ol style="list-style-type: none"> 1. Reason quantitatively 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 4: Students can interpret data presented in a variety of ways.
Subject: Consumer Math

<i>Benchmark: The student will:</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can use tables and graphs to locate and read information.	<ol style="list-style-type: none"> 1. Locate amounts in specific cells of a table 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can interpret data from a variety of sources.	<ol style="list-style-type: none"> 1. Read amounts on scales of bar and line graphs 2. Compare quantities to determine ranks, sums, or differences and to find ratios 3. Use tables and graphs to determine rates or identify trends, understand underlying or functional relationships, and generalize or draw conclusions 4. Interpret data from a variety of sources 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
C) Students can make inferences based on data presented in a variety of ways.	<ol style="list-style-type: none"> 1. Make inferences based on data presented in a variety of ways 2. Understand and apply some basic mathematics of decision making in a democratic society. 3. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 1: Students can understand and apply a variety of math concepts
Subject: General Math

<i>Benchmark; The student will;</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can understand and apply number properties and operations.	<ol style="list-style-type: none"> 1. Represent, compare, and order numbers 2. Describe and apply properties of numbers 3. Demonstrate ways of performing operations 4. Use place value; write numbers in standard, expanded, and exponential form 5. Use and interpret operational and relational symbols 6. Understand and apply number properties and operations 7. Understand and apply some basic mathematics of decision making in a democratic society. 8. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can understand and apply concepts and procedures of algebra.	<ol style="list-style-type: none"> 1. Solve equations 2. Explore numerical patterns 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

C) Students can understand and apply concepts of geometry.	<ol style="list-style-type: none"> 1. Identify, classify, and compare geometric figures 2. Apply the concepts of perimeter, area, and volume 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
D) Students can understand and apply concepts of measurement.	<ol style="list-style-type: none"> 1. Measure length/distance, time, temperature, weight, mass, and volume 2. Estimate measurements with appropriate precision 3. Identify and use appropriate units of measurement 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 2: Students can understand and apply methods of estimation.

Subject: General Math

<i>Benchmark: The students will:</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can understand and apply concepts and procedures of standard rounding, order of magnitude, and number sense.	<ol style="list-style-type: none"> 1. Use standard rounding to estimate 2. Use order of magnitude to estimate 3. Use number sense to estimate 4. Understand and apply concepts and procedures of standard rounding, order of magnitude, and number sense 5. Evaluate reasonableness of solutions 6. Understand and apply some basic mathematics of decision making in a democratic society. 7. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 3: Students can solve a variety of math problems.

Subject: General Math

<i>Benchmark: The student will:</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can solve math problems.	<ol style="list-style-type: none"> 1. Solve single-step and multiple-step math problems 2. Identify extraneous or insufficient information in problems 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can understand and apply problem-solving approaches and procedures.	<ol style="list-style-type: none"> 1. Choose a method for solving a problem 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
C) Students can solve math problems requiring multiple steps and operations.	<ol style="list-style-type: none"> 1. Solve math problems requiring multiple steps and operations 2. Understand and apply some basic mathematics of decision making in a democratic society. 3. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
D) Students can reason quantitatively.	<ol style="list-style-type: none"> 1. Reason quantitatively 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 4: Students can interpret data presented in a variety of ways.

Subject: General Math

<i>Benchmark: The student will:</i>	<i>Grade Level Objectives</i>	<i>Instructional Strategies</i>	<i>Assessments</i>	<i>Instructional Timeline</i>
A) Students can use tables and graphs to locate and read information.	<ol style="list-style-type: none"> 1. Locate amounts in specific cells of a table 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can interpret data from a variety of sources.	<ol style="list-style-type: none"> 1. Read amounts on scales of bar and line graphs 2. Compare quantities to determine ranks, sums, or differences and to find ratios 3. Use tables and graphs to determine rates or identify trends, understand underlying or functional relationships, and generalize or draw conclusions 4. Interpret data from a variety of sources 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
C) Students can make inferences based on data presented in a variety of ways.	<ol style="list-style-type: none"> 1. Make inferences based on data presented in a variety of ways 2. Understand and apply some basic mathematics of decision making in a democratic society. 3. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Group Discovery Group Discussion Calculator Usage	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

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

Subject: Geometry

Benchmark; The student will;	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
Students can understand and apply concepts of geometry.	<ol style="list-style-type: none"> 1. Identify, classify, and compare geometric figures 2. Describe geometric properties, patterns, and relationships 3. Apply the concepts of perimeter, area, and volume 4. Understand and apply some basic mathematics of decision making in a democratic society. 5. Understand and apply some basic mathematics of information processing and the Internet. 6. Represent and solve geometric problems by specifying locations using coordinates. 7. Understand and apply the basic principles of transformational geometry. 8. Understand and apply properties and relationships of geometric figures. 9. Use trigonometry based on triangles and circles to solve problems about length and angle measures. 10. Uses diagrams consisting of vertices and edges (vertex-edge graphs) to model and solve problems. 11. Uses geometrical reasoning and proof. 	Teacher led discussion Calculator Usage Group Discovery Group Discussion	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
Students can understand and apply concepts of measurement.	<ol style="list-style-type: none"> 1. Measure length/distance, time, temperature, weight, mass, and volume 2. Estimate measurements with appropriate precision 3. Identify and use appropriate units of measurement 	Teacher led discussion Calculator Usage Group Discovery Group Discussion	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

Martensdale-St. Marys Community School

Math Curriculum

Standard 3: Students can solve a variety of math problems.

Subject: Geometry

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A) Students can solve math problems.	<ol style="list-style-type: none"> 1. Solve single-step and multiple-step math problems 2. Identify extraneous or insufficient information in problems 	Teacher led discussion Calculator Usage Group Discovery Group Discussion	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
B) Students can understand and apply problem-solving approaches and procedures.	<ol style="list-style-type: none"> 1. Choose a method for solving a problem 	Teacher led discussion Calculator Usage Group Discovery Group Discussion	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
C) Students can solve math problems requiring multiple steps and operations.	<ol style="list-style-type: none"> 1. Solve math problems requiring multiple steps and operations 2. Understand and apply some basic mathematics of decision making in a democratic society. 3. Understand and apply some basic mathematics of information processing and the Internet. 	Teacher led discussion Calculator Usage Group Discovery Group Discussion	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	
D) Students can reason quantitatively.	<ol style="list-style-type: none"> 1. Reason quantitatively 	Teacher led discussion Calculator Usage Group Discovery Group Discussion	Homework Homework Quizzes Mid Chapter Quizzes Chapter Tests	

