

Martensdale-St. Marys Community School Science/Health Curriculum

Standard 1: Students can understand and apply skills used in scientific inquiry.

1st Grade:

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand and apply the processes and skills of scientific inquiry.	1.A.1.1: Ask questions about objects, organisms, and events in the environment.	Compare & Contrast KWL Chart Observations Investigations Questioning Inferring	Teacher Observation	
	1.A.1.2: Plan and conduct simple investigations. (C)	Teacher Modeling Web Quests Investigations Observations Questioning Inferring Cooperative Learning Class Discussion Inventor's Fair Brainstorming	Teacher Observation Inventor's Fair Rubric	
	1.A.1.3: Use tools to gather data and extend the senses. (ST)	Teacher Modeling Web Quests Investigations Observations Use of balance, magnifiers, and microscope. Questioning Inferring	Teacher Observation Inventor's Fair Rubric	

		Inventor's Fair Brainstorming		
	1.A.1.4: Use mathematics in scientific inquiry.	Measurement Investigations Observations Questioning Cooperative Learning Inferring	Teacher Observation	
	1.A.1.5: Communicate investigations and explanations orally, in writing or through drawings. (MCGF) (HN)	Student Drawings Student Writing Inventor's Fair	Inventor's Fair Rubric	
	1.A.1.6: Follow appropriate safety procedures when conducting investigations.	Brainstorming Rules together. Make a poster of appropriate rules and review before each science investigation.	Teacher Observation Class Discussion	
B. analyze and interpret scientific information.	1.B.1.1: Use data to construct reasonable explanations.	Measurement Investigations Observations Questioning Inventor's Fair	Inventor's Fair Rubric	

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Standard 2: Students can understand concepts and relationships in life science.

1st Grade:

Benchmarks: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand structures of living things.	2.A.1.1: Apply and understand the characteristics of living things and how living things are both similar to and different from each other and from non-living things. (G)	Observation Compare & Contrast Investigations Questioning Classification Explore animals from different countries. Textbook Read Alouds KWL Chart	Teacher Observation Class Discussion	
	2.A.1.2: Apply and understand fundamental human body parts and their functions.	Human Body Construct Diagram (Life Size) Investigation Class Discussion Read Alouds KWL Chart	Teacher Observation Class Discussion	
	2.A.1.3: Apply and understand good health habits. (PS)	Teacher Modeling Investigation Class Discussion Read Alouds Chart Healthy	Class Discussion Teacher Observation	

		Habits KWL Chart Science Journal Brainstorming		
B. understand life cycles.	2.B.1.1: Apply and understand life cycles of plants and animals.	Investigation Questioning Compare & Contrast Read Alouds Textbook Venn Diagram Graphic Organizer	Teacher Observation Class Discussion Graphic Organizer	
C. understand environmental interaction and adaptation.	2.C.1.1: Apply and understand the basic needs of plants and animals and how they interact with each other and their physical environment. (T)	Plan Investigations Questioning Compare & Contrast Web Quest Textbook Read Alouds Venn Diagram KWL Chart	Graphic Organizer Teacher Observation KWL Chart Class Discussion	
	2.C.1.2: Apply and understand ways to help take care of the environment.	Teacher Modeling Class Discussion Chart of Ways to take care of the environment. Read Alouds Investigation Web Quest Inquiry Graphic Organizer Earth Day activities	Class Discussion Teacher Observation Graphic Organizer	

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Standard 3: Students can understand concepts and relationships in Earth/Space sciences.

1st Grade:

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand ideas about Earth's composition and structure.	3.A.1.1: Apply and understand properties of earth materials.	Investigation Questioning Compare & Contrast Read Alouds Inferring Inquiry Classification Class Discussion Graphic Organizer	Teacher Observation Class Discussion Graphic Organizer	
B. understand changes in and around Earth.	3.B.1.1: Apply and understand observable information about daily and seasonal weather conditions.	Investigation Questioning Compare & Contrast Read Alouds Inferring Inquiry Class Discussion Student Drawings	Class Discussion Teacher Observation	
C. understand concepts relating to the universe.	3.C.1.1: Apply and understand events around us that have repeating patterns including the seasons of the year, day, and night.	Investigation Questioning Compare & Contrast	Class Discussion Teacher Observation	

		Read Alouds Inferring Inquiry Class Discussion Student Drawing Student Models of the Solar System		
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Standard 4: Students can understand concepts and relationships in physical science.

1st Grade:

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand and apply the concept of energy.	4.A.1.1: Understand and apply the positions and motions of objects.	Student Drawings Read Alouds Inferring Inquiry Investigation	Class Discussion Teacher Observation	
B. understand and identify properties and changes of matter.	4.B.1.1: Understand and apply observable and measurable properties of objects.	Use of rulers, balances and thermometers Questioning Compare and Contrast Read Alouds Inferring Inquiry Class Discussion Student Drawings Investigation	Class Discussion Teacher Observation	
	4.B.1.2: Understand and apply characteristics of liquids and solids.	Questioning Compare and Contrast Read Alouds Inferring Inquiry Investigation	Class Discussion Teacher Observation	