

Martensdale-St. Marys Community School

Science / Health Curriculum

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

2nd 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.2.1: Ask questions about objects, organisms, or events in the environment. HN	Observe & classify Question Science Journal Communicate Predict	Observation Student questions	
	1.A.2.2: Plan and conduct simple investigations. HN	Question & Predict Observe Measure & Record Science Journal Communicate	Observation Data collection	
	1.A.2.3: Use tools to gather data and extend the senses. C	Model & guide using rulers, thermometers, magnifiers, scales	Data collection	
	1.A.2.4: Use mathematics in scientific inquiry. C	Model Observe & Infer	Data collection Discussion	
	1.A.2.5: Communicate investigations and explanations orally, in writing or through drawings. G, PS	Model Science Journal Communicate	Discussion Written report Drawing	
	1.A.2.6: Follow appropriate safety procedures when conducting investigations. C, PS	Model Guided Practice Science Journal	Observation Poster Discussion	
B. analyze and interpret scientific information.	1.B.2.1: Use data to construct reasonable explanations. HN	Gather & organize data Infer & Predict Science Journal Communicate	Discussion Written report	

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

2nd Grade:

Benchmarks: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand structures of living things.	2.A.2.1: 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. HN, G	Observe Sort and Classify with T-charts / VENN diagrams Science Journal Communicate	Observation Graphic organizer Discussion	
	2.A.2.2: Apply and understand fundamental human body parts and their functions. C	Observe Body structures for thinking, walking, holding, seeing, talking Science Journal Communicate	Observation Discussion	
	2.A.2.3: Apply and understand good health habits. MCGF, PS	Observe Science Journal Communicate	Observation Discussion	
B. understand life cycles.	2.B.2.1: Apply and understand life cycles of plants and animals. HN	Observe similarities of parents / offspring Discuss birth>adult>reproduction>death Science Journal Communicate	Observation Discussion	
C. understand environmental interaction and adaptation.	2.C.2.1: Apply and understand the basic needs of plants and animals and how they interact with each other and their physical environment. HN, G	Graphic organizer Science Journal Communicate (Animals need air, water, food) (Plants need water,	Graphic organizer Discussion	

		nutrients, light)		
	2.C.2.2: Apply and understand ways to help take care of the environment. PS, T	Communicate Science Journal Predict	Observation Discussion	

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

2nd Grade:

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand ideas about Earth's composition and structure.	3.A.2.1: Apply and understand properties of earth materials. HN	Observe color and texture of rocks, soil, water, gas Record in sc. journal Communicate	Observation Discussion	
B. understand changes in and around Earth.	3.B.2.1: Apply and understand observable information about daily and seasonal weather conditions. HN, T	Observe weather Discuss the sun Record in sc. journal Communicate	Observation Discussion	
C. understand concepts relating to the universe.	3.C.2.1: Apply and understand events around us that have repeating patterns including the seasons of the year, day, and night. HN, G	Observe Discuss the sun Discuss Earth's rotation Record in sc. journal Communicate	Observation Discussion	

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Standard 4: Students can understand concepts and relationships in physical science.

2nd Grade:

Benchmark: The student will:	Grade Level Objectives	Instructional Strategies	Assessments	Instructional Timeline
A. understand and apply the concept of energy.	4.A.2.1: Understand and apply the positions and motions of objects. HN	Observe & measure position over time Push & pull Record in sc. journal Communicate	Observation Discussion	
B. understand and identify properties and changes of matter.	4.B.2.1: Understand and apply observable and measurable properties of objects. T, HN	Observe size, weight, shape, & color Measure with rulers, thermometers, & balances Sort & classify Record in sc. journal Communicate	Observation Discussion	
	4.B.2.2: Understand and apply characteristics of liquids and solids. C, HN	Observe Sort & classify solid, liquid, & gas Heating & cooling changes states of matter Record in sc. journal Communicate	Observation Discussion	