Martensdale-St. Marys Community School
Science Curriculum

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

Grade: 3

Benchmark: ***The student will:***	***Grade Level Objectives***	***Instructional Strategies***	***Assessments***	***Instructional Timeline***
A. understand structures of living things.	1.A.3.1: identify and generate questions that can be answered through scientific investigations **(HN)**	Observation log 3QSR Experiment	Teacher observation Rubric	
	1.A.3.2: recognize that scientists perform different types of investigations. **(C)**	Movie Career paper Guest speakers	Rubric Teacher observation	
	1.A.3.3: plan and conduct scientific investigations. **(PS)**	Experiments Illustrations	Rubric Teacher observation	
	1.A.3.4: incorporate mathematics in science inquiries. **(C)**	Data tables Charts	Worksheets	
	1.A.3.5: follow appropriate safety procedures when conducting investigations. **(T)**	Illustrations Demonstration of safety skills Video on lab safety	Teacher observations	
B. analyze and interpret scientific information	1.B.3.1: use appropriate tools and techniques to gather, process, and analyze data. **(T)**	Weight experiment Science centers using balances, microscopes, magnifying glasses	Teacher observation	
	1.B.3.2: use evidence to develop reasonable explanations **(T)**	KWL chart Summary page Reflective journal	Class discussion Teacher observation	
	1.B.3.3: communicate scientific procedures and explanations. **(C, T)**	Class presentations Posters	Teacher observation	

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

Grade: 3

Benchmarks: ***The student will:***	***Grade Level Objectives***	***Instructional Strategies***	***Assessments***	***Instructional Timeline***
A. understand the structures of living things	2.A.3.1: understand and apply knowledge of organisms and their environments **(MCGF)**	Illustrations of a life cycle Plant seeds and chart changes Create models	Teacher observation Rubric	
	2.A.3.2: understand and apply knowledge of personal health and wellness issues. **(G,C)**	Food pyramid activity Guest speaker Videos	Teacher observation	
B. understand life cycles	2.B.3.1: understand and apply knowledge of basic human body systems and how they work together. **(T,C)**	Field Trip to hospital Illustrations Diagrams Videos	Teacher observation Rubric	
C. understand environmental interaction and adaptations	2.C. 3.1: understand and apply knowledge of environmental stewardship **(G)**	Recycle Earth Day activities Posters about environmental awareness Rain Forest activities	Teacher observation Rubric	

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

Grade: 3

Benchmark: ***The student will:***	***Grade Level Objectives***	***Instructional Strategies***	***Assessments***	***Instructional Timeline***
A. understand ideas about Earth's composition and structure	3.A.3.1 Understand and apply knowledge of properties and uses of earth materials **(G,C)**	Recycling activities Gardening Field Trip to the greenhouse Soil observation Chart growth patterns	Teacher observation Charts	
B. understand life cycles	3.B.3.1 Understand and apply knowledge of processes and changes on or in the earth's land, oceans, and atmosphere **(C)**	Guest speaker Make volcanoes Erosion activity	Teacher observation	
	3.B.3.2 Understand and apply knowledge of fossils and evidence they provide of past life on earth **(MCGF)**	Classify fossils Research project	Teacher observation Rubric	
	3.B.3.3 Understand and apply knowledge of weather and weather patterns **(T)**	Weather patterns activity Guest speaker Weather investigation Map activities	Teacher observation Rubric Activity Masters	
C. understand concepts relating to the universe	3.C.3.1 Understand and apply knowledge of the properties, movements, and locations of objects in our solar system. **(HN,T,C)**	Star Lab Drawing Star Patterns with chalk Flashlight activity Video Story Writing Crater making	Teacher observation Rubric	

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

Grade: 3

Benchmark: ***The student will:***	***Grade Level Objectives***	***Instructional Strategies***	***Assessments***	***Instructional Timeline***
A. understand and apply concepts related to mechanics, forces, and motion.	4.A.3.1: understand and apply knowledge of how forces are related to an object's motion. **(PH,ST)**	Graphing activities Make pinwheels Toy car travel activity	Teacher observations	
B. understand and apply the concept of energy	4.B.3.1: understand and apply knowledge of sound, light, electricity, magnetism, and heat. **(PS, ST)**	Mirror reflection activity Musical instrument activity Magnet/Sound grouping centers Heat making activity	Teacher observation	
C. understand and identify properties and changes of matter	4.C.3.1: understand and apply knowledge of the concept of conservation of mass/matter **(HN,PS)**	Weight activities Experiments with solids, liquids, and gases	Teacher observation	
	4.C.3.2: understand and apply knowledge of state of matter and changes in states of matter **(HN)**	Ice melting experiment Wood burning experiment	Teacher observation	
	4.C.3.3: understand and apply knowledge of how to describe and identify substances based on characteristic properties. **(C)**	Experiments	Teacher observation	