

<u>Science Benchmarks</u>	
	Grade Two
	The student will:
	Standard 1: EARTH & SPACE SCIENCE Demonstrate an understanding of the structure and systems of Earth and other bodies in the universe and their interactions.
2-1a.	Give examples of ways that animals and plants can cause changes in their surroundings.
2-1b.	Identify basic earth materials (i.e., solid rocks, soils, liquid water and gases of the atmosphere).
2-1c.	Describe the three basic components in soil.
2-1d.	Explain that chunks of rocks come in all sizes, from boulders to grains of sand.
2-1e.	Perform simple tests to identify and describe the unique properties of basic soil components.
2-1f.	Interpret test results to draw conclusions about soil composition.
2-1g.	Describe the difference between the surface of the Earth and the surface of the moon.
2-1h.	Describe the differences between day and night.
2-1i.	Describe how the sun is always shining.
2-1j.	Demonstrate how the rotation of the earth causes day and night.
2-1k.	Recognize that the moon has phases.
2-1l.	Illustrate the effect of the sun on the earth's surface.
	Standard 2: LIFE SCIENCE Understand the characteristics and structures of living things, the processes of life and how living things interact with each other and their environment.
2-2a.	Identify external features that help animals thrive in different environments.
2-2b.	List ways living things can be sorted into many groups using various properties.
2-2c.	Describe the different stages of the life cycle of a butterfly, which includes birth, larva, caterpillar, chrysalis and adult butterfly.
2-2d.	Explain that life cycles are different for different organisms and relate the life cycle of the butterfly to his/her own growth and change.
2-2e.	Identify plants and animals that live in different places.
2-2f.	Give several examples of how plants and animals adapt to changes in their environment.

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2-2g.	Explain that when an environment changes some animals and plants survive and reproduce, and others die, migrate, or move to new locations.
2-2h.	Explain that animals eat plants (larva/caterpillar) or other animals for food and may also use plants or other animals for shelter and nesting (chrysalis).
2-2i.	Illustrate ways that living things closely resemble their parents.
2-2j.	Compare/contrast variations among individuals within a population.
2-2k.	Identify different structures that serve different functions in growth, survival and reproduction.
	Standard 3: PHYSICAL SCIENCE Demonstrate an understanding of the physical and chemical properties of matter, the forms and properties of energy, and how matter and energy are interrelated.
2-3a.	Classify objects using their composition and physical properties.
2-3b.	Demonstrate ways to change the physical properties of some materials.
2-3c.	Demonstrate that not all materials respond in the same way to what is done with them.
	Standard 4: SOCIETY & TECHNOLOGY Demonstrate an understanding of scientific knowledge and technological design in society.
2-4a.	Categorize into groups, objects that occur in nature and those that are designed and made by man to solve human problems.
2-4b.	Demonstrate the use of tools like thermometers, magnifiers, rulers and balances to add information to our senses.
2-4c.	Demonstrate how observations and learning can come from observations and simple experiments.
2-4d.	Demonstrate how to work with a team and share findings with others.