



Elementary School Teaching and Learning

2022-2023 Scope and Sequence

Science – Grade 1

OVERVIEW

LIFE SCIENCE

Units are not taught in the order listed. They are based on the Science Kit Rotation Schedule.

In this unit, students will recognize that plants and animals have needs to survive that are provided by their environment. Students will learn how environments provide needs for living things. Students will also learn how humans protect the environment and improve conditions for organisms that live there.

UNIT	UNIT DURATION	PARENT/FAMILY RESOURCES	NORTH CAROLINA STANDARDS
Ecosystems	Approximately 25 days	List of Plant Picture Books	<p>1.L.1 Understand characteristics of various environments and behaviors of humans that enable plants and animals to survive.</p> <p>1.L.1.1 Recognize that plants and animals need air, water, light (plants only), space, food and shelter and that these may be found in their environment.</p> <p>1.L.1.2 Give examples of how the needs of different plants and animals can be met by their environments in North Carolina or different places throughout the world.</p> <p>1.L.1.3 Summarize ways that humans protect their environment and/or improve conditions for the growth of the plants and animals that live there (e.g., reuse or recycle products to avoid littering).</p>
Molecular Biology	Approximately 20 days	Plant Needs	<p>1.L.2 Summarize the needs of living organisms for energy and growth.</p> <p>1.L.2.1 Summarize the basic needs of a variety of different plants (including air, water, nutrients, and light) for energy and growth.</p> <p>1.L.2.2 Summarize the basic needs of a variety of different animals (including air, water, and food) for energy and growth.</p>



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PHYSICAL SCIENCE

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In Physical Science, 1st grade students will use their inquiry skills to explore positions of objects, push and pull, balance and magnets. They will also explore the different variables which affect the movement of objects, including weight and position.

UNIT	UNIT DURATION	PARENT/FAMILY RESOURCES	NORTH CAROLINA STANDARDS
Forces and Motion	Approximately 45 days	Force and Motion	1.P.1 Understand how forces (pushes or pulls) affect the motion of an object. 1.P.1.1 Explain the importance of a push or pull to changing the motion of an object. 1.P.1.2 Explain how some forces (pushes and pulls) can be used to make things move without touching them, such as magnets. 1.P.1.3 Predict the effect of a given force on the motion of an object, including balanced forces.



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OVERVIEW

EARTH SCIENCE

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In Earth Science, students will recognize the features and patterns of the day and night sky, as well as understand why Earth's materials are useful.

UNIT	UNIT DURATION	PARENT/FAMILY RESOURCES	NORTH CAROLINA STANDARDS
Earth in the Universe	Approximately 20 days	Earth and Moon Phases of the Moon	1.E.1 Recognize the features and patterns of the earth/moon/sun system as observed from Earth. 1.E.1.1 Recognize differences in the features of the day and night sky and apparent movement of objects across the sky as observed from Earth. 1.E.1.2 Recognize patterns of observable changes in the Moon's appearance from day to day.
Earth Systems, Structures and Processes	Approximately 25 days	Helping Your Child Learn Science	1.E.2 Understand the physical properties of Earth materials that make them useful in different ways. 1.E.2.1 Summarize the physical properties of earth materials, including rocks, minerals, soils and water that make them useful in different ways. 1.E.2.2 Compare the properties of soil samples from different places relating their capacity to retain water, nourish and support the growth of certain plants.