SCIENCE

NORTH CAROLINA STANDARD COURSE OF STUDY

FORCES 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.

EARTH IN THE UNIVERSE

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

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.

ECOSYSTEMS

1.L.1 Understand characteristics of various environments and behaviors of humans that enable plants and animals to survive.

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.

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.

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).

EARTH SYSTEMS, STRUCTURES AND PROCESSES

1.L.2 Summarize the needs of living organisms for energy and growth.

1.L.2.1 Summarize the basic needs of a variety of different plants (including air, water, nutrients, and light) for energy and growth.

1.L.2.2 Summarize the basic needs of a variety of different animals (including air, water, and food) for energy and growth.

SCIENCE

EXTENDED CONTENT STANDARDS

FORCES AND MOTION

EX.1.P.1 Understand how pushes or pulls change the motion of an object.

EX.1.P.1.1 Identify what is causing a stationary object to move: a push or pull.

EX.1.P.1.2 Observe that objects initially at rest will move in the direction of the push or pull.

MATTER, PROPERTIES AND CHANGE

EX.1.P.2 Understand physical properties of objects.

EX.1.P.2.1 Classify objects by observable properties (size, shape, color, and texture).

EX.1.P.2.2 Classify objects by the Material they are made from (e.g., clay, wood, cloth, paper).

EX.1.P.3.1 Recognize objects as same serving the same function even when one property has changed (e.g., size, color).

EARTH SYSTEMS, STRUCTURES AND PROCESSES

EX.1.E.2 Identify differences in Earth Materials.

EX.1.E.2.1 Identify change in an object (color, size, shape) using one or more of the senses.

EX.1.E.2.2 Identify earth Materials (rocks, soils and water).

STRUCTURES AND FUNCTIONS OF LIVING ORGANISMS

EX.1.L.1 Understand characteristics of living and nonliving things.

EX.1.L.1.1 Classify objects, people and animals as living or nonliving.

EX.1.L.1.2 Identify major external human body parts (head, eyes, ears, nose, mouth, hands, feet, legs and arms).

ECOSYSTEM

EX.1.L.2 Understand characteristics of various environments.

EX.1.L.2.1 Identify ones own environment when transitioning from place to place (e.g., school, home, outside).

EX.1.L.2.2 Identify living and nonliving things in indoor and outdoor environments.

EX.1.L.2.3 Describe Materials found in various environments (e.g. rocks, soil, water, clay, wood, cloth, paper).

EX.1.L.2.4 Use one or more of the senses to make observations about the environment (e.g. weather conditions).