

Students will be able to: SKILLS IN INQUIRY-BASED LEARNING

- Ask questions about objects, organisms and events in the environment.
- Answer the questions “Why?” and “What would happen if...?”
- Make predictions based on observed patterns.
- Name and use simple equipment and tools (*rulers, meter sticks, thermometers, hand lenses and balances*) to gather data.
- Record observations and data with pictures, numbers, or written statements.
- Discuss observations with others.

Students will be able to: PHYSICAL SCIENCE

- Sort objects by observable properties such as size, shape, color, weight and texture.
- Recognize that under some conditions, objects can be balanced.
- Identify objects and materials as solids, liquids or gases. Recognize that solids have a definite shape and that liquids and gases take the shape of their container.
- Demonstrate that one way to change the motion of an object is to apply a force. Understand that the greater the force, the greater the change in the motion of the object.

Students will be able to: LIFE SCIENCE

- Differentiate between living and nonliving things. Group both living and nonliving things according to the characteristics that they share.
- Recognize that animals (*including humans*) and plants are living things that grow, reproduce and need food, air and water.
- Recognize that plants and animals have life cycles and that life cycles vary for different living things.
- Describe ways in which many plants closely resemble their parents in observed appearance.
- Recognize that fossils provide us with information about living things that inhabited the earth years ago.
- Recognize changes in appearance that plants go through as the seasons change.
- Identify the ways in which an organism’s habitat provides for its basic needs. (*plants require air, water, nutrients, and light; animals require food, water, air and shelter*)

Students will be able to: EARTH AND SPACE SCIENCE

- Recognize that the sun supplies heat and light to the earth and is necessary for life.
- Recognize that air is a mixture of gases that is all around us and that wind is moving air.
- Recognize that a season has patterns in temperature, precipitation, and wind speed and direction that occur over time.
- Recognize that some events around us have repeating patterns. (*seasons of the year, day and night*)

Students will be able to: TECHNOLOGY

- Identify and describe characteristics of natural and human-made materials.
- Identify and explain possible uses for natural and human-made materials.
- Identify and describe safe and proper use of tools and materials to construct simple structures.
- Describe how human beings and animals use parts of body as tools.
- Identify tools and simple machines used for a specific purpose. (*ramp, wheel, pulley, lever*)