

St. Raphael the Archangel

Science

3rd Grade 2017-2018

Learning Goals- Students will:

Matter and Energy

1. Describe the changes in the physical properties of water (solid, liquid, gas).
2. Identify sources of light energy (e.g., Sun, bulbs, flames).

Living Organisms

1. Describe and sequence the stages in the life cycle (for a plant) of seed germination, growth and development, reproduction, and death (i.e., a flowering plant).
2. Describe the basic needs of most plants (i.e., air, water, light, nutrients, temperature).
3. Identify the major organs (roots, stems, flowers, leaves) and their functions in vascular plants (e.g., absorption, transport, reproduction).

Ecology

1. Classify populations of organisms as producers or consumers by the role they serve in the ecosystem.
2. Identify sunlight as the primary source of energy plants use to produce their own food.

Universe

1. Observe and identify there is a day/night cycle every 24 hours.
2. Describe the pattern of change that can be observed in the Moon's appearance relative to time of day and month as it occurs over several months.
3. Illustrate and describe how the Sun appears to move slowly across the sky from east to west during the day.

Scientific Inquiry

1. Be able to communicate the procedures and results of investigations and explanations through: oral presentations, drawings and maps, data tables, and graphs
2. Be able to use data as support for observed patterns and relationships, and to make predictions to be tested.

3. Measure length to the nearest centimeter, mass using grams, temperature using degrees Celsius, volume using liters.
4. Compare amounts/measurements e. Judge whether measurements and computation of quantities are reasonable.

Science, Technology, and Human Activity

1. Describe how new technologies have helped scientists make better observations and measurements for investigations (e.g., telescopes, magnifiers, balances, microscopes, computers, stethoscopes, thermometers).
2. Observe and identify that some materials are natural and some are human-made