SAU 15
Auburn, Candia, Hooksett
Grade 3
POWER STANDARDS
Science

EARTH

Sun, Moon, and Stars

- **Students will know that the Sun gives Earth light and heat.**
  - **S:ESS2:3:2.1** Recognize that the Sun provides the light and heat necessary to maintain the temperature of the Earth.

Earth Materials

- **Students will be able to explain that we use things from Earth for certain uses.**
  - **S:ESS1:3:2.3** Given information about Earth materials, explain how their characteristics lend themselves to specific uses.
  - **S:ESS1:3:2.4** Given certain Earth materials (soils, rocks, or minerals) use physical properties to sort, classify, and/or describe them.

LIFE

Life Cycles – Plant and Animal Growth and Development

- **Students will sort living things based on their characteristics and compare the life stages. They will also know that all living things need air, water, food, and space to stay alive.**
  - **S:LS1:3:1.2** Sort/classify different living things using similar and different characteristics. Describe why organisms belong to each group or cite evidence about how they are alike or not alike.
  - **S:LS1:3:2.3** Identify and explain how the physical structures of an organism (plants or animals) allow it to survive in its habitat/environment (e.g., roots for water; nose to smell fire).
  - **S:LS1:3:2.4** Identify the basic needs of plants and animals in order to stay alive (i.e., water, air, food, space).
  - **S:LS1:3:3.4** Predict, sequence, or compare the life stages of organisms (plants and animals) (e.g., put images of life stages of an organism in order, predict the next stage in sequence, and compare two organisms).

PHYSICAL

Matter and Physical Properties

- **Students will predict what will happen if matter is cooled or heated. They will also collect and sort information about physical properties.**
  - **S:PS1:3:2.4** Make a prediction about what might happen to the state of common materials when heated or cooled or categorize materials as solid, liquid, or gas.
  - **S:PS1:3:2.5** Collect and organize data about physical properties in order to classify objects or draw conclusions about objects and their characteristic properties (e.g., temperature, color, size, shape, weight, texture, flexibility).

Force and Light

- **Students will describe reflection, refraction, and absorption between light and some other objects. They will also use information to show that a change in force will change the position, direction, or speed of an object.**
  - **S:PS2:3:3.7** Use observations of light in relation to other objects/substances to describe the properties of light (can be reflected, refracted, or absorbed).
  - **S:PS3:3:2.1** Use data to predict how a change in force (greater/less) might affect the position, direction of motion, or speed of an object (e.g., ramps and balls).