

## **Jackson Area Catholic Schools**

### **Science Academic Standards for Second Grade**

#### **Scientific Inquiry**

- SI.02.01** The student will generate questions, conduct investigations, and develop solutions to problems through reasoning and observation.
  
- SI.02.02** The student will analyze and present findings that lead to future questions, research, and investigation.
  
- SI.02.03** The student will make purposeful observation of the natural world using the appropriate senses.
  
- SI.02.04** The student will generate questions based on observations.
  
- SI.02.05** The student will plan and conduct simple investigations.
  
- SI.02.06** The student will manipulate simple tools (ruler, meter stick, measuring cups, hand lens, thermometer, balance) that aid observation and data collection.
  
- SI.02.07** The student will make accurate measurements with appropriate units (meter, centimeter) for the measurement tool.
  
- SI.02.08** The student will construct simple charts and graphs from data and observations.

#### **Life Science**

- LS.02.01** The student will compare and classify organisms on the basis of physical characteristics.
  
- LS.02.02** The student will describe functions of seed plant parts.
  
- LS.02.03** The student will conduct a scientific investigation of growing a flowering plant, observe the results, order stages of the plant's life cycle, and match the parts of the plant to its functions.

**Life Science (cont.)**

- LS.02.04** The student will explain the connection between physical/behavior characteristics and survival in the environment.
- LS.02.05** The student will identify organisms as part of a food chain/food web.
- LS.02.06** The student will identify the positive and negative effects of humans on the environment.
- LS.02.07** The student will identify health, nutrition, dental hygiene and safety issues at home and school.
- LS.02.08** The student will identify common patterns and interdependence of living things.
- LS.02.09** The student will identify characteristics of plants (for example: leaf shape, flower type, color, size) that are passed on from parents to young.
- LS.02.10** The student will describe the food, energy and environmental needs of similar organisms, and identify the basic requirements for all living things to sustain life.

**Earth Science**

- ES.02.01** The student will identify basic characteristics of the atmosphere.
- ES.02.02** The student will describe the water cycle and identify sources of drinking water.
- ES.02.03** The student will describe the three states of water and the ways they can go back and forth from one form to another.
- ES.02.04** The student will compare and contrast major features of the Earth's surface (oceans, lakes, rivers, mountains, valleys, and plains).
- ES.02.05** The student will describe changes in the Earth's surface by natural forces (wind, water, and ice) that cause erosion and rapid changes (earthquake).

**Physical Science**

- PS.02.01** The student will measure weight, length, volume (use of equipment: rulers, balances, measuring spoons and cups) and dimensions of appropriate objects and materials.
- PS.02.02** The student will classify objects as single substances (sugar, salt) or mixtures (salt and pepper).
- PS.02.03** The student will describe the characteristics of sound and light.
- PS.02.04** The student will participate in the construction of simple machines.
- PS.02.05** The student will recognize electrical safety concerns at home and school.