

Jackson Area Catholic Schools

Science Academic Standards for First Grade

Scientific Inquiry

- SI.01.01** The student will generate questions, conduct investigations, and develop solutions to problems through reasoning and observation.
- SI.01.02** The student will analyze and present findings that lead to future questions, research, and investigation.
- SI.01.03** The student will make purposeful observations of the natural world using the appropriate senses.
- SI.01.04** The student will generate questions based on observations.
- SI.01.05** The student will plan and conduct simple investigations.
- SI.01.06** The student will manipulate simple tools (ruler, meter stick, measuring cups, hand lens, thermometer, balance) that aid observation and data collection.
- SI.01.07** The student will make accurate measurements with appropriate units (meter, centimeter) for the measurement tool.
- SI.01.08** The student will construct simple charts and graphs from data and observations.

Life Science

- LS.01.01** The student will compare/classify plants and animals into major groups based on structure/physical characteristics including fossils and evidence of ancient life.
- LS.01.02** The student will investigate characteristics of selected vertebrates to categorize as mammals, birds, and fish.
- LS.01.03** The student will identify the life cycles of familiar organisms such as egg, young, adult; egg, larva, pupa, adult.
- LS.01.04** The student will describe the functions of plant parts.

Science Standards

First Grade

Life Science (cont.)

- LS.01.05** The student will describe growth changes in insects, plants and the human body.
- LS.01.06** The student will identify the positive and negative effects of humans on the environment.
- LS.01.07** The student will identify health, nutrition, dental hygiene, and safety issues at home and school.
- LS.01.08** The student will identify characteristics passed from parent to young.
- LS.01.09** The student will describe life cycles of familiar organisms.
- LS.01.10** The student will identify the basic requirements of all living things.

Earth Science

- ES.01.01** The student will describe weather conditions and climates.
- ES.01.02** The student will describe seasonal weather changes.
- ES.01.03** The student will identify basic characteristics of the atmosphere (sun, planets, and the moon).
- ES.01.04** The student will be aware of the need for recycling.
- ES.01.05** The student will identify the sun as the most important source of heat, which warms the land, air, and water of the earth.
- ES.01.06** The student will describe severe weather effects.
- ES.01.07** The student will identify tools that might be used to measure temperature, precipitation, cloud cover, and wind.
- ES.01.08** The student will describe how earth materials contribute to the growth of plant and animal life.
- ES.01.09** The student will understand precautions that should be taken during severe weather conditions.

Physical Science

- PS.01.01** The student will classify common objects on the basis of attributes/physical changes in matter.
- PS.01.02** The student will describe the characteristics of sound, light, heat, electricity, and magnetism.
- PS.01.03** The student will explain how shadows are made.
- PS.01.04** The student will participate in the construction of simple machines.
- PS.01.05** The student will recognize electrical safety concerns at home and school.
- PS.01.06** The student will identify the measurements, weight and temperature of various objects.
- PS.01.07** The student will compare and contrast common objects and substances according to their attributes and properties and identify how they are useful in everyday life.
- PS.01.08** The student will describe interaction of magnetic materials.
- PS.01.09** The student will analyze the chemical and physical properties of liquids, solids, and gases, using scientific investigation.
- PS.01.10** The student will describe the interaction between magnetic and nonmagnetic materials.