

Jackson Area Catholic Schools

Science Academic Standards for Third Grade

Scientific Inquiry

- SI.03.01** The student will make purposeful observations of the natural world, using the appropriate senses.
- SI.03.02** The student will generate questions based on observations.
- SI.03.03** The student will plan and construct simple and fair investigations.
- SI.03.04** The student will manipulate simple tools that aid observation and collection.
- SI.03.05** The student will make accurate measurements with appropriate units for the measurement tool.
- SI.03.06** The student will construct simple charts and graphs from data and observations.
- SI.03.07** The student will summarize information from charts and graphs to answer scientific questions.
- SI.03.08** The student will share ideas about science through purposeful conversation in collaborative groups.
- SI.03.09** The student will communicate and present findings of observations and investigations.
- SI.03.10** The student will develop research strategies and skills for information gathering and problem solving.
- SI.03.11** The student will compare and contrast sets of data from multiple trials of a scientific investigation to explain reasons for differences
- SI.03.12** The student will demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.
- SI.03.13** The student will use data/samples as evidence to separate fact from opinion.
- SI.03.14** The student will evidence when communicating scientific ideas.
- SI.03.15** The student will identify technology used in everyday life.

Scientific Inquiry (cont.)

- SI.03.16** The student will identify current problems that may be solved through the use of technology.
- SI.03.17** The student will describe the effects humans and other organisms have on the balance of the natural world.
- SI.03.18** The student will describe how people have contributed to science throughout history and across cultures.

Life Science

- LS.03.01** The student will describe the function of the following plant parts: flower, stem, root, and leaf.
- LS.03.02** The student will identify and compare structures in animals used for controlling body temperature, support, movement, food-getting and protection (for example: fur, wings, teeth, claws).
- LS.03.03** The student will relate characteristics and functions of observable parts in a variety of plants that allow them to live in their environment (for example: leaf shape, thorns, odor, and color).
- LS.03.04** The student will relate characteristics and functions of observable body parts of the ability of animals to live in their environment (for example: sharp teeth, claws, color, body, covers).
- LS.03.05** The student will identify the basic needs of all living things.
- LS.03.06** The student will identify organisms as part of a food chain/food web.
- LS.03.07** The student will classify plants on the basis of observable physical characteristics (roots, leaves, stems, and flowers).
- LS.03.08** The student will classify selected animals according to their vertebrate groups, compare and contrast with physical characteristics of invertebrates.
- LS.03.09** The student will identify the positive and negative effects of humans on the environment.

Earth Science

- ES.03.01** The student will identify the causes for the changes in the earth's surface.
- ES.03.02** The student will describe the water cycle.
- ES.03.03** The student will identify material of the earth's surface (rocks, minerals fossils, and soil) along with their uses.
- ES.03.04** The student will describe characteristics of the atmosphere.
- ES.03.05** The student will describe weather conditions and seasonal changes.
- ES.03.06** The student will identify natural resources (metals, fuels, fresh water, farmland, and forest).
- ES.03.07** The student will classify renewable and non-renewable resources.
- ES.03.08** The student will describe ways humans are protecting, extending, and restoring natural resources.
- ES.03.09** The student will recognize that paper, metal, glass, and some plastics can be recycled.
- ES.03.10** The student will identify earth materials used to construct some common objects.
- ES.03.11** The students will describe how materials taken from the Earth can be used as fuels for heating and transportation.
- ES.03.12** The student will describe ways humans are dependent on the natural environments.
- ES.03.13** The student will describe helpful or harmful effects of humans on the environment.

Physical Science

- PS.03.01** The student will describe how forces, such as friction and gravity, affect change in motion of objects and investigate how these forces are incorporated in simple machines.
- PS.03.02** The student will participate in the construction of simple machines.
- PS.03.03** The student will describe the characteristics of sound, light, heat and electricity.
- PS.03.04** The student will recognize electrical safety concerns at home and school.
- PS.03.05** The student will compare and contrast the motion of objects in terms of direction.
- PS.03.06** The student will identify changes in motion.
- PS.03.07** The student will calculate the speed of an object, based on the distance it travels divided by the amount of time it took to travel that distance.