

SCatholic Identity: Integration of Our Faith

- K.1A display a deep sense of wonder and delight about the natural universe *
- K.1B describe the unity of faith and reason *
- K.1C describe relationships, elements, underlying order, harmony, and meaning *
- K.1D share concern and care for the environment as part of God’s creation *

Learning Process Standards

K.2 The student uses scientific practices during laboratory and scientific investigations and uses critical thinking and scientific problem solving to make informed decisions. The student will explain how science properly limits its focus to “how” things physically exist and is not designed to answer issues of meaning, the value of things, or the mysteries of the human person. * The student will list the basic contributions of significant Catholics to science. *

Tools to Know

- K.2A plan and conduct investigations
- K.2B collect information using appropriate scientific tools

Ways to Show

- K.2C record and organize data and observations
- K.2D communicate observations about investigations

Properties of Matter

K.3 Matter and Energy. The student knows that objects have properties and patterns.

Applied Standards

- K.3A observe and record properties of objects, including bigger or smaller, heavier or lighter, shape, color, and texture

Supporting Standards

- K.3A.1 observe, record, and discuss how materials can be changed by heating or cooling

Force, Motion, and Energy

K.4 Force, motion, and energy. The student knows that energy, force, and motion are related and are a part of their everyday life.

- K.4A use the senses to explore different forms of energy such as light, thermal, and sound
- K.4B explore interactions between magnets and various materials
- K.4C observe and describe the ways that objects can move such as in a straight line, zigzag, up and down, back and forth, round and round, and fast and slow

- K.4C.1 observe and describe the location of an object in relation to another such as above, below, behind, in front of, and beside

Rocks and Water

K.5 Earth and Space. The student knows that the natural world includes earth materials, shares concern and care for the environment as a part of God’s creation. *

- K.5A observe, describe, and sort rocks by size, shape, color, and texture
- K.5B observe and describe physical properties of natural sources of water, including color and clarity

- K.5A.1 give examples of ways rocks and soil are useful
- K.5B.1 give examples of ways water is useful

Seasons and Space

K.5 Earth and space. The student knows that there are recognizable patterns in the natural world and among objects in the sky and describes God’s relationship with man and nature. *

K.5C observe and describe weather changes from day to day and over seasons

K.5C.1 identify events that have repeating patterns, including seasons of the year and day and night

K.5D observe, describe, and illustrate objects in the sky such as the clouds, Moon, and stars, including the Sun

Basic Needs of Plants and Animals

K.6 Organisms and environments. The student knows that plants and animals have basic needs and depend on the living and nonliving things around them for survival and explains how creation is an outward sign of God’s love. *

K.6A examine evidence that living organisms have basic needs such as food, water, and shelter for animals and air, water, nutrients, sunlight, and space for plants

K.6A.1 differentiate between living and nonliving things based upon whether they have basic needs and produce offspring

Characteristics of Plants and Animals

K.6 Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments.

K.6B sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape

K.6B.1 identify basic parts of plants and animals

K.6B.2 identify ways that young plants resemble the parent plant

K.6B.3 observe changes that are part of a simple life cycle of a plant: seed, seedling, plant, flower, and fruit