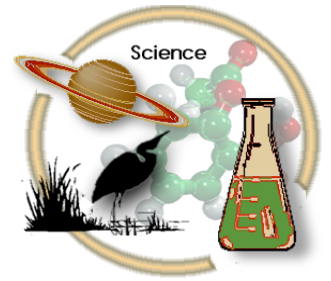


Science

Grade 3



Standard 2: The student understands the nature of scientific knowledge.

2.1 Gives scientific explanations based on evidence and scientific knowledge

2.2 Makes results of investigations public

2.3 Reviews and asks questions about the results of other scientists' work

Standard 3: The student understands the nature and tools of scientific inquiry.

3.1 Uses different kinds of investigations (e.g. observations of things or events, data collection, controlled experiments)

3.2 Conducts simple investigation (e.g. makes systematic observations and develops logical conclusions)

3.3 Uses simple nonstandard and standard equipment such as thermometers, magnifiers, rulers, or balances to gather data and extend the senses

3.4 Draws reasonable conclusions based on observations

Standard 4: The student understands science as a human endeavor.

4.1 Knows that people of all ages, backgrounds and groups have made contributions to science and technology throughout history

4.2 Knows that science is an on-going process and will never be finished

4.3 Knows that scientists* often work in teams to accomplish a task

*Scientists – students as scientists as well as professional scientists.

Standard 5: The student understands basic features of the earth.

5.1 Knows the approximate location of continents, bodies of water, and deserts

5.2 Understands that lack of precipitation can create a desert

Standard 6: The student understands basic earth processes/properties of soil.

6.1 Knows that small rocks come from the weathering of bigger rocks

6.2 Knows that rocks are made of minerals

Standard 8: The student knows about the diversity and unity that characterizes life.

8.1 Knows that the skeletal systems of vertebrate animals are made up of many bones

8.2 Knows that the skeletal system permits movement, defines shape, and protects vital body parts

Standard 11: The student understands how species depend on one another and on the environment for survival.

11.1 Knows that the behavior of individual organisms is influenced by internal cues (e.g. hunger) and external cues (e.g. changes in the environment) and that humans and other organisms have senses that help them to detect these cues

11.2 Knows that an organism's patterns of behavior are related to the nature of that organism's environment

Standard 14: The student understands basic concepts about the structure and properties of matter.

14.1 Knows that properties such as length, weight, temperature and volume can be measured using appropriate tools
Rulers, balances, thermometers, graduated cylinders

Standard 16: The student understands motion and the principles that explain it.

16.1 Knows that sound originates from a source that is vibrating and is detected at a receiver such as the human ear.

16.2 Understands the relationship between the pitch of a sound and the physical properties of the sound source (i.e. length of vibrating object, frequency of vibrations, and tension of vibrating strings.)

16.3 Observes and compares how sound travels through solids, liquids, and air

16.4 Observes and compares sounds to develop discrimination ability

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