



Science: Grade 2

The student will understand that:

Science Connections

1. when parts are put together, they can do things that they couldn't do by themselves
2. some events can be predicted more accurately than others
3. things can change in different ways such as size, weight, color, and movement

Nature of Science

1. men and women have made a variety of contributions throughout the history of science and technology
2. science and technology; have been practiced by people for a long time
3. science and technology continue to change over time

Science Inquiry

1. compare and contrast objects and events and communicate findings
2. identify a simple problem, test a possible solution to the problem, and communicate the results (guess, predict, test, tell)
3. show that science experiments normally have reproducible results and work in the same way in different places
4. explain that learning can come from careful observation and simple experiments

Physical Science

1. objects can be described by their properties and can be measured
2. an object's motion can be described by tracking and measuring its position over time
3. light travels in a straight line until it strikes an object.
4. heat can move from one object to another (conduction)
5. materials that are affected by magnets have similar properties

Earth and Space Science

1. rocks come in all sizes from boulders to grains of sand
2. soil contains many living things

3. the earth's surface is made up of continents and bodies of water
4. the lakes, rivers, and oceans provide resources that are rich and valuable to living things
5. materials of the earth include gases in the atmosphere
6. humans can alter the appearance of the earth's surface
7. the surface of the earth can be changed slowly (i.e., erosion, weathering) or rapidly (i.e., earthquakes, floods volcanic eruptions)

Life and Environmental Science

1. animals and plants are grouped by their characteristics
2. the human body is composed of different systems, serving different purposes
3. environmental changes such as the weather and seasons influence the life and death of animals and plants
4. living things are part of a system and are interdependent with their living and non-living surroundings
5. natural resources are limited and must be used very carefully
6. human influences have initiated change in earth environments

Science Applications

1. conduct a problem solving investigation and explain the outcomes of their investigations.
2. develop the ability to work individually and collaboratively
3. use the tools of science (balances, thermometers, and other measuring instruments) appropriately

Social and Personal Perspectives

1. an individual's and population's quality of life and ability to survive are affected by environmental factors
2. balanced nutrition, exercise and a healthy life style are essential to good health
3. drugs can have positive or negative effects depending upon how they are used