

SCIENCE

Science Grade 3

S.3.A Physical Science

A.1. Students will understand force, motion, and energy.

- a) Know when force is applied to an object, the object speeds up, slows down, or goes in a different direction.
- b) Know various types of energy.
- c) Identify simple machines.

S.3.B Earth Science

B.1. Students will understand that objects are made of more than one substance.

- a) Know properties of earth materials.
- b) Know ways to identify compositions of rocks.

S.3.C Earth and Space

C.1. Students will understand that the features and basic process of the Earth change over time.

- a) Know how the features of the Earth's surface are constantly changed by a combination of slow and rapid processes.
- b) Identify objects in the sky, noting changes in patterns of those objects over time.
- c) Know resources that humans use in industry and in households both in Wisconsin and elsewhere in the world.

S.3.D Life Science

D.1. Students will understand the interdependence of living things on one another and the environment.

- a) Know that an organism's basic needs must be met in order to survive.
- b) Explore different organisms' life cycles.
- c) Develop explanations for the connections among living and non-living things in various environments.

S.3.E Scientific Knowledge and Inquiry

E.1. Students will understand the nature of scientific knowledge.

- a) Know that knowledge has changed over time and has led to changes in technology.
- b) Know that good scientific explanations are based on evidence and scientific knowledge.

- E.2. Students will understand the nature of scientific inquiry.
- a) Use simple equipment (rulers, thermometers, microscopes, and calculators) safely to further scientific data and extend the senses.
 - b) Communicate results of simple investigations using charts, graphs, and written descriptions.

S.3.F Nature of Science

- F.1. Students will use a weekly resource to explore physical science, geology and space science, and life science.
- a) Read and discuss Science Studies Weekly-Discovery throughout the year.
- F.2. Students will investigate different scientists, inventors, and artists.
- a) Explore the triumphs of some of history's greatest contributors to the sciences by viewing animated programs.