

SCIENCE

Science Grade 3

S.3.A Physical Science

- A.1. Students will understand force, motion, and energy.
- Know when force is applied to an object, the object speeds up, slows down, or goes in a different direction.
 - Know various types of energy.
 - Identify simple machines.

S.3.B Earth Science

- B.1. Students will understand that objects are made of more than one substance.
- Know properties of earth materials.
 - 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.
- Know how the features of the Earth's surface are constantly changed by a combination of slow and rapid processes.
 - Identify objects in the sky, noting changes in patterns of those objects over time.
 - 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.
- Know that an organism's basic needs must be met in order to survive.
 - Explore different organisms' life cycles.
 - 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.
- Know that knowledge has changed over time and has led to changes in technology.
 - 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.