

Teaching Unit: 1.Ecosystems

Essential Understandings

All living things are part of an ecosystem. In that ecosystem they depend on each other and on non-living things in order to survive.

There are many diverse ecosystems on Earth.

Sub Topic:

Knowledge and Skills

Students will:

- describe the energy flow of a food chain or food web within an ecosystem.
- explain the effect of removing a species from a ecosystem.

Teaching Unit: 2.Conservation

Essential Understandings

Pollution has negative effects on life on earth.

Recycling, reusing, and reducing lessens the amount of landfills needed.

Sub Topic:

Knowledge and Skills

Students will:

- understand Earth’s natural resources are limited.
- understand the concept of recycling, reusing and reducing.

Teaching Unit: 3.Energy & Electricity

Essential Understandings

There are many different forms of energy and different ways to produce energy for human use.

Sub Topic:

Knowledge and Skills

Students will:

- understand various forms of energy and their uses
- understand how electrical circuits work

Teaching Unit: 4.Force & Motion

Essential Understandings

Forces affect all of our movements and actions.
Machines are used to reduce work.

Sub Topic:

Knowledge and Skills

Students will:

- understand how forces affect motion.
- understand how these simple machines work: lever, pulley, screw, inclined plane, wheel and axle, wedge

Teaching Unit: **5.Changing/Watery Earth**

Essential Understandings

Moving water, wind, ice, and the force of gravity continually change Earth's surface.

Sub Topic:

Knowledge and Skills

Students will:

- understand that plant and animal fossils provide clues to Earth's past.
- understand that Earth's surface is constantly changing.
- learn about types of rocks and the rock cycle.

Teaching Unit: **6.Pond Life**

Essential Understandings

Pond communities contain essential plant and animal life that is both visible and not visible to the naked eye.

Sub Topic:

Knowledge and Skills

Students will:

- understand life exists in forms too small to see without the aid of tools such as microscopes.
 - understand microscopic life is essential to food webs and food chains.
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