

Unit 4a-Human Impact on Earth

Content Area: **Science**
Course(s): **Science K**
Time Period: **Marking Period 4**
Length: **MP 4**
Status: **Published**

Essential Questions

- How do people affect the world around them?
- How can you help keep the Earth healthy?
- What can we do to reduce, reuse, and recycle our natural resources?

Big Ideas

- Things people do can affect the environment but they can make choices to reduce their impacts.

CSDT Technology Integration

8.2.2.ETW.3 Describe or model the system used for recycling technology.

Activity: Students will learn how to recycle all different types of materials including technology.

CSDT Technology Connection

8.1.2.NI.1: Model and describe how individuals use computers to connect to other individuals, places, information, and ideas through a network.

Science and Engineering Practices

Asking Questions and Defining Problems:

- Ask questions based on observations to find more information about the natural and/or designed world(s).

Enduring Understanding

Next Generation Standards

Human Impacts on Earth Systems

K-ESS2.C Things that people do to live comfortably can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things.

Developing Possible Solutions

K-E SS3.B Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people.

Focus Areas

Knowledge

- There are specific things that people do to live comfortably that can affect the world around them.
- We need to reduce, reuse, and recycle our resources.
- Water conservation is saving our natural resources. We must try every day to conserve water.
- Humans use natural resources for everything they do.
- Resources are renewable or non-renewable.

Skills

- Identify and practice activities they can do to reduce their impact on land, water, air, and other living things.
- Identify and use water conservation practices.
- Explore and communicate solutions that will reduce the impact of humans in their local environment.

Understandings

- Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.
- Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

Resources

Primary Resources

- BrainPop, Jr
- NJCTL Unit 5 Human Impacts

Scientific Inquiry

Core

- Earth Day Activities
- Reduce, Reuse, Recycle
- Recycling Sort Activity
- BrainPop, Jr Wants Vs. Needs Activity
- BrainPop, Jr Water Cycle Activity - Water Cycle in a Bag
- What Can You Do? Activity 20

Supplemental

- Soil Samples Lab
- Compost Activity
- Recycling Activity
- Keeping Environment Clean Activity
- Plant a Tree Activity
- Cleaning Dirty Water Activity
- Human Impact Activity 1
- Earth's Resources Activity 2
- Reduce, Reuse, Recycle Activities 5-7 and Lab 3