

Division of Outdoor Experiences

Earth's Natural Resources

Grade Level: 3

Length of Program: 20 minutes, Video segment (A, B)

Setting: Asynchronous Remote Learning

State Standards:

- 3.ESS.2: Earth's resources can be used for energy.
- 3.ESS.3: Some of the Earth's resources are limited.

Theme: Conserving the Earth's resources ensures energy for the future.

Objectives

At the end of the program, students will be able to:

- Understand that the Earth's resources can be used for energy.
- Understand that Earth's resources may become limited due to overuse and pollution/contamination.
- Articulate the difference between renewable and nonrenewable resources.
- Articulate the difference between recycling, reducing and reusing.

Vocabulary (key concept words only)

- Nonrenewable resource: a substance or material found naturally in the environment that cannot replenish/replace itself within this geological age, i.e., oil, coal, natural gas
- Renewable resource: a naturally occurring material, substance or form of energy that can replenish/replace itself through ecological cycles and good management, i.e., wind, water, sun,
- Recycle: changing old products into new products
- Reduce: lower the amount of things that we use
- Reuse: taking old or used items and finding a new use for them

Materials needed: recycle bins (or cardboard box), scale

PROGRAM OUTLINE

Watch Video A

Earth's renewable resources

- Ask your students to articulate what renewable resources are.
- Discuss daily uses of renewable resources as energy and conservation of these, i.e. water usage.

Enrichment Activity: Visit <https://www.epa.gov/sites/production/files/2015-08/documents/mgwc-gwa21.pdf>. Engage students with these activities on water usage and conservation.

Watch Video B

Earth's nonrenewable resources and the three R's

- Ask your students to articulate the difference between renewable and nonrenewable resources.
- Discuss daily uses of nonrenewable resources and conservation of these, i.e. gasoline in cars, natural gas and electricity usage in their homes.
- Discuss ways you can reduce, reuse and recycle in the classroom and at home.

Enrichment Activity: Set up a classroom paper recycling program. Weigh the bin weekly and record the how many pounds are recycled monthly. Visit https://cuyahogarecycles.org/recycling_at_school to learn more about recycling ideas for your school.