



SUSTAINABLE TEACHING CURRICULUM
LESSON PLAN

Renewable Energy

Primary Subjects- Science

Objectives:

- The students will learn what renewable resources are.
- Students will learn the importance of renewable resources.

Materials:

- Two posters: one that reads “Non renewable energy.” another that reads “Renewable.”

Introduction to Lesson/ Anticipatory Set:

- “Has anyone heard of renewable energy?”
- “Does anyone know what renewable energy is?”
 - “It’s a type of energy that will never run out...like wind. We will never run out of wind.”
 - “Renewable energy doesn’t produce any harmful pollutants”

Major instructional Sequence:

- Set up the renewable energy game
 - Put up each poster on opposite sides of the room
- Describe to students the way the game works: a teacher will read out an action and students will either to the side of the room with the poster that says: “Renewable Energy.” Or “Nonrenewable energy.” Depending on what they believe the energy source is categorized as. Read out the following actions:
 - “Wind power.”
 - “Burning coal.”
 - “Burning gas.”
 - “Water power or hydropower.”
 - “Burning oil.”
 - “Sun power or solar power.”

Concluding Sequence:

- “So what is worse for the environment renewable or nonrenewable energy sources?”
- “Why?”

- Nonrenewable because they produce pollutants and we will eventually run out of this type of energy source.

Background:

This lesson plan is meant to teach students the benefits of renewable energy by comparing it to nonrenewable energy. Most students will associate gas and coal with energy as opposed to wind, solar, hydroelectric, or geothermal power. The goal of this lesson plan is to teach students about how renewable energy will never run out, does not produce pollutants, and is much better form of energy for the environment.

Vocabulary:

Renewable Energy- a type of energy that will never run out and does not produce pollutants.

Non Renewable Energy- a type of energy that we will run out of (finite), and produces pollutants or “smoke”