



SUSTAINABLE TEACHING CURRICULUM
LESSON PLAN

Solar Cooker

Primary Subjects- Science

Objectives:

- Students will learn how to harness the energy of renewable energy in everyday life.
- Students will learn the importance of solar power.

Materials:

- Recycled pizza box (or similar box)
- Black construction paper
- Aluminum foil
- Saran wrap
- Wooden dowel or straw
- Glue, tape, scissors, marker

Introduction to Lesson/ Anticipatory Set:

- “Today we are going to make a solar oven. We are going to use the power of the sun to cook cookies next week.”
- “Does anyone know what renewable energy is?””

Major instructional Sequence:

- Split the class up into two groups and make solar cookers
- Instructions are attached and can be found at <http://www.solarnow.org/pizzabx.htm>

Concluding Sequence:

- “Does our oven pollute at all?”
 - no
- “So is it healthier for the environment to use the oven we made or use the oven in your kitchen?”
 - the oven we made (explain why)

Observation:

This lesson plan allows students to see first hand how renewable energy sources (like solar and wind power) can be as effective as the conventional types of energy that students are accustomed to baking with. This is a way to bake cookies without emitting any pollutants.

Vocabulary:

Solar- having to do with the sun

Solar cooker- an oven that uses the power of the sun to cook things instead of electricity