

Energy Detectives



LESSON 1: What is Energy?

OVERVIEW & PURPOSE: This lesson serves as an introduction to the different kinds of energy. Students work in groups research types of energy online. Each group will be assigned a type of energy and create a poster. The closure for this lesson is a gallery walk.

CONTENT STANDARDS

NGSS: MSPS-3 Energy

CCSS Math: MP3:Construct viable arguments and critique the reasoning of others.

OBJECTIVE:

Students will learn about the types of energy and where they are found. Students will understand the difference between renewable and non-renewable and kinetic vs. Potential energy.

VOCABULARY: Renewable, non-renewable, mechanical, solar, radiant, heat, electrical, nuclear, sound, chemical, kinetic energy, potential energy

MATERIALS NEEDED:

Poster paper, pens, and internet access.

Link : <http://www.eschooltoday.com/energy/kinds-of-energy/all-about-energy.html>

TEACHER QUESTIONS

What is energy?

What does renewable mean?

What is kinetic energy? Potential energy?

Can different types of energy be potential and sometimes kinetic?

What makes energy considered renewable?

ACTIVITY

Begin with a class discussion, “What is energy”.

Assign each group or pair a type of energy to research . The groups will create a poster and use the web link to report to the class. Posters include a definition and examples not given on the e-school web site.

Close the lesson with a Gallery Walk or have groups present their findings and discussion.