

# What is Energy?

**First Grade**

**Activity: 6**

**Time: 1 Class Period**

## General Description

Students will classify objects in the classroom based on observable characteristics of temperature and/or movement.

## Objectives

Students will classify objects in the classroom that use energy.

Students will identify objects that use energy by what objects change temperature and/or move.

## Arizona State Standards

SC01 S1C1 PO1 Compare common objects using multiple senses

SC01 S1C2 PO1 Demonstrate safe behavior and appropriate procedures (e.g., use of instruments, materials, organisms) in all science inquiry

SC01 S1C2 PO2 Participate in guided investigations in life, physical, Earth and space sciences

SC01 S1C2 PO4 Record data from guided investigations in an organized and appropriate format (e.g., lab book, log, notebook, chart paper)

SC01 S1C4 PO1 Communicate the results of an investigation using pictures, graphs, models, and/or words

SC01 S5C1 PO1 Classify objects by the following observable properties:

- shape
- texture
- size
- color
- weight
- length
- temperature

## Teacher Background

Have the students explore the items that produce heat, cool off, or have motion, including themselves. Have students classify objects as either using energy or not. Conclude the lesson by stating that energy produces temperature change and or motion.

## Materials (per student)

Pencils

Paper

Coloring materials

## **Procedure/Exploration**

1. Model to students an object that uses energy in the classroom based on temperature change or movement.
2. Allow the students to find things in the room that move, or change a temperature.
3. Have children run or skip around the playground.
4. Have students put a hand on their stomach or under their arms. Ask them what they feel.
5. As a class list all the objects the students came up. Correct misconceptions here.
6. Have the students draw objects in the classroom on a poster and classify those that use energy and those that do not.
7. Have students explain how they know the objects that they classified as using energy actually use energy. (Simple sentences such as “The fan went round and round” would be acceptable).

Suggestion: Complete Whirling Windmills (Activity 7) with this lesson.