



Investigation 7:

Using Energy Resources Wisely



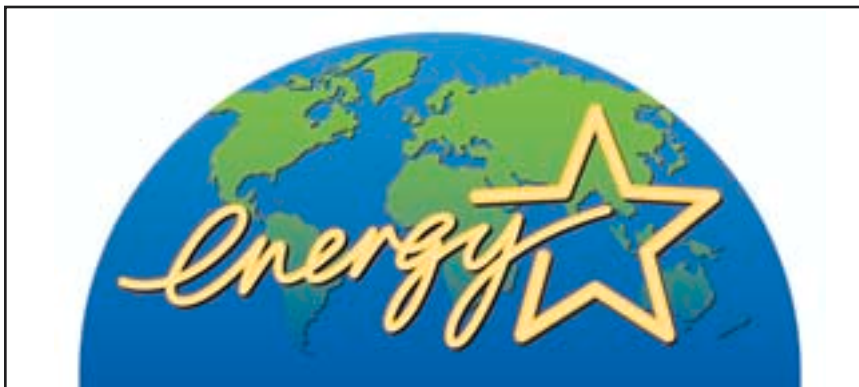
Key Question

Before you begin, first think about this key question.

How can less energy be used to reach the same goal?

Think about what you know about energy resources. How can the use of energy resources be reduced? How can energy use be made more efficient?

Discuss your ideas in small groups and as a class. Record important ideas in your journal.



Investigate

Part A: Retaining Heat Energy

1. Obtain a beaker, a soup can (with label removed), and a Styrofoam cup. They should all be about the same size. Predict which item will hold heat the best.
 - a) Record your prediction in your journal, as well as a reason for your prediction.

Materials Needed

For this investigation your group will need:

- a beaker (about 250 mL)
- Styrofoam® cup (about 250 mL)
- soup can (label removed)
- masking tape
- 18 sheets of paper
- three alcohol thermometers
- plastic wrap
- rubber bands (3)
- calculator
- graph paper
- watch or clock
- presentation materials

