



## Investigation 6:

# Solar Energy



## Key Question

Before you begin, first think about this key question.

**What other energy sources are there?**

Does all electricity come from burning of fossil fuels? Aside from electricity, what other kinds of energy do you use or need?

Write down your ideas in your journal. Share them with your group and the class.



## Investigate

### Part A: Modeling the Absorption of Solar Energy

1. Select three containers.

Using your supplies, make one container black, another container white, and the final container shiny. (Your teacher may choose to have each group investigate only one of the containers.)

Using a graduated cylinder, place exactly the same volume of water in each of these three containers.

## Materials Needed

For this part of the investigation your group will need:

- three cylindrical metal containers, all alike
- black paint
- white paint or paper
- aluminum foil
- masking tape
- graduated cylinder
- water
- stirrer
- three alcohol thermometers
- heat lamp

