

# Energy Source Detective

## Get Ready

Make one copy of the activity on page 42 for each student.

## Go

- Distribute a copy of the activity to each student.
- Explain to the students how to complete each energy source box, using hydropower as an example. The students begin with number 1 and decide whether the energy source is 1a or 1b, write the correct number in the box, draw an arrow, then follow the directions after the number until they discover the name of the energy source. When they discover the correct name, they write it at the bottom of the box.
- For the example for hydropower, the students must first decide whether hydropower is renewable or nonrenewable. It is renewable, so 1a is the first number to be written in the box. They follow the directions to 2 and decide whether the source can be burned. Hydropower is not burned, so they write the number 2b and follow the directions to the next clue, until they discover the name of the energy source.

## Extension

- Have students work in pairs to design a flow chart that displays all of the information in this game, and extra information if they desire. It may serve as a graphic study tool for later.

*Energy Source Detective is a critical thinking activity to reinforce understanding of the basic characteristics of the major energy sources.*

### Grade Levels

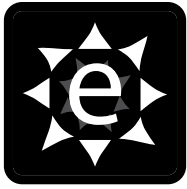
- Primary, grade 2
- Elementary, grades 3-4

### Preparation

- Less than 5 minutes

### Time

- 10 minutes



# Energy Source Detective

- 1a Renewable ..... go to 2
- 1b Nonrenewable ..... go to 6

- 2a Can be burned ..... Biomass
- 2b Is not burned ..... go to 3

- 3a Energy from space ..... Solar
- 3b Energy in/on the Earth ..... go to 4

- 4a Inside the Earth ..... Geothermal
- 4b On the Earth's surface ..... go to 5

- 5a Moving water ..... Hydropower
- 5b Moving air ..... Wind

- 6a Fossil fuel ..... go to 7
- 6b Energy-rich mineral ..... Uranium

- 7a A gas ..... go to 8
- 7b A solid or liquid ..... go to 9

- 8a Moved by pipeline ..... Natural Gas
- 8b Shipped in tanks ..... Propane

- 9a Mined from the Earth ..... Coal
- 9b Pumped from the Earth ..... Petroleum

|                              |  |  |  |  |  |
|------------------------------|--|--|--|--|--|
| 1a → 2b →<br>3b → 4b →<br>5a |  |  |  |  |  |
|                              |  |  |  |  |  |