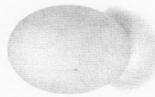


## Family Science Activity

### Evaluate Energy

Evaluate the changing forms of energy when you bounce a basketball.



#### Materials:

- basketball (or other bouncing ball)
- meterstick

#### Steps

- 1 Hold the basketball half a meter from the ground. Let the ball drop and measure the height it bounces.
- 2 Repeat the experiment for other heights. Use this chart to record your findings.

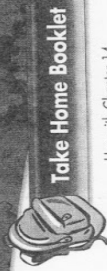
Original Height	Bounce Height
.5 m	
1 m	
1.5 m	
2 m	
2.5 m	

#### Talk About It

Can you find a relationship between the original height and the bounce height?

Why doesn't the ball bounce back to the original height?

Dropping a ball converts gravitational energy into kinetic energy. What other kinds of energy might be produced when the ball bounces? (Hint: Listen up!)



Take Home Booklet

Use with Chapter 14

## Dear Family,

Your child is learning about the changing forms of energy. In the science chapter Changing Forms of Energy, our class looked at energy in its most common forms, including sound, light, electricity, and magnetism. We also studied chemical energy, nuclear energy, and mechanical energy.

In addition, your child has learned many new vocabulary words that describe energy. Help your child to make these words a part of his or her own vocabulary by using them when you talk together about the energy you use every day.

energy  
kinetic energy  
potential energy  
electromagnetic radiation  
thermal energy  
conduction  
convection

The following pages include activities that you and your child can do together. By participating in your child's education, you will help to bring the learning home.