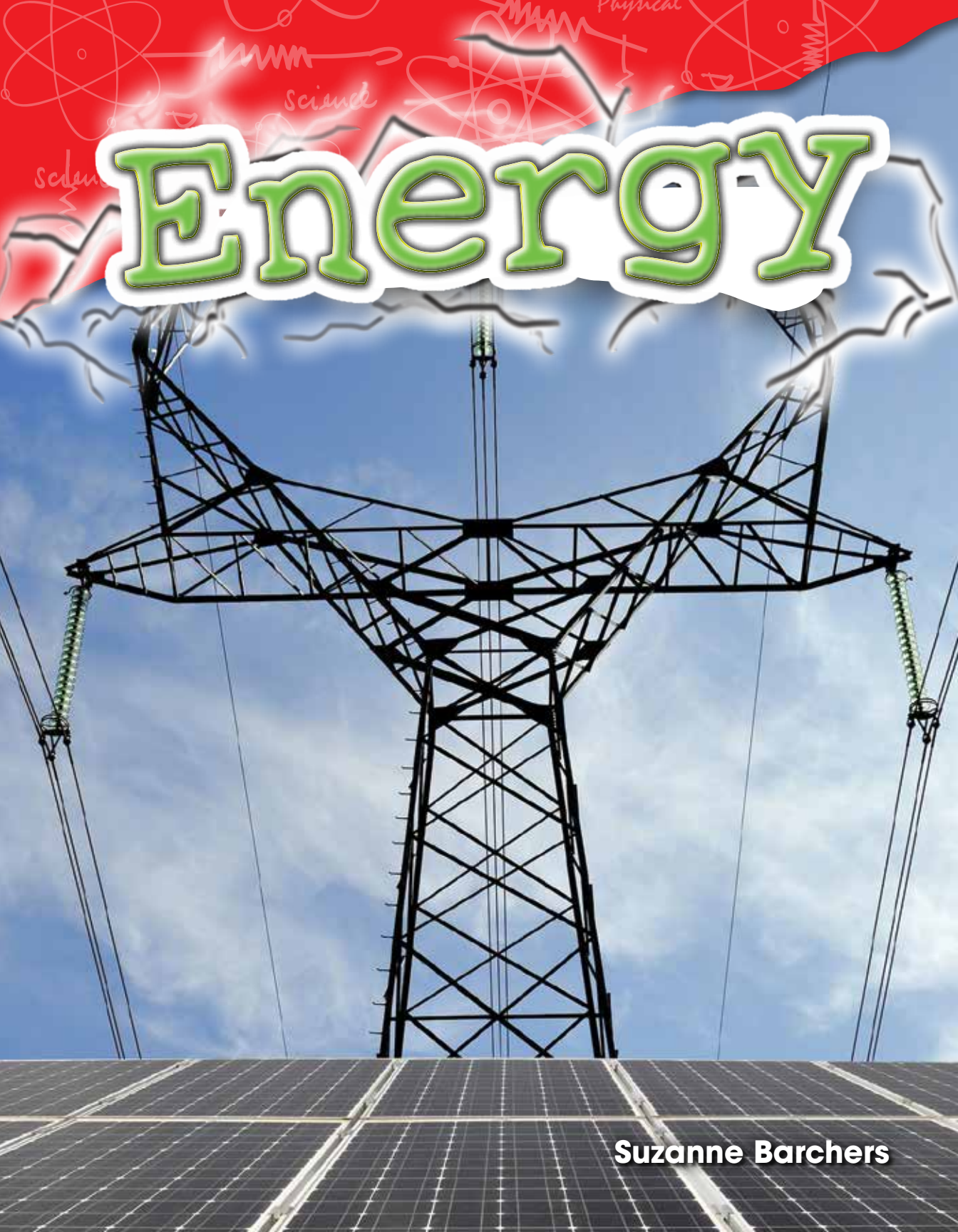
Energy



Suzanne Barchers

For teachers' inspection ONLY

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Energy All Around You

Look around you. Is a computer on? Is a TV on? Listen. Can you hear kids talking? Can you hear lights humming?



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The machines and the people are using **energy**. Are you sitting in a chair? Are you quiet? You are still using energy.





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How Does Energy Work?

You know what it means to **work**. You work at school and at playing sports. You may work at playing the piano. You may work on chores at home.

In science, work means making something happen. Each time you take a breath, your body is at work. Even when you sleep, your body is at work. All of this work takes energy.

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Listen Up!

When you talk, you move the air. Those waves of **sound energy** reach your eardrums. That is how you hear.

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Hello, Sunshine!

Energy comes from many sources. One source is always working for us—the sun. The sun is full of energy. Without the sun, we could not live on Earth.

The sun sends us both heat and light. Plants use the sun's **light energy** to grow. When you eat plants, that energy is passed to you.



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People and animals get energy from the food they eat. Plants get energy from the sun.

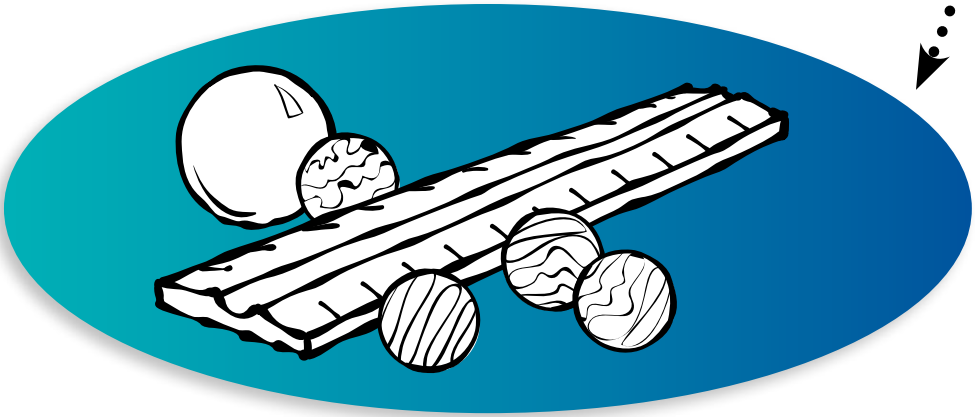
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Let's Do Science!

How does energy transfer? See for yourself!

What to Get

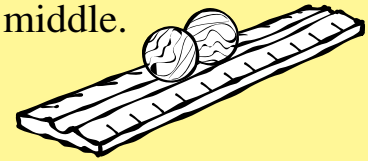
- ❍ 1 larger marble
- ❍ 4 smaller marbles of the same size
- ❍ ruler with a groove



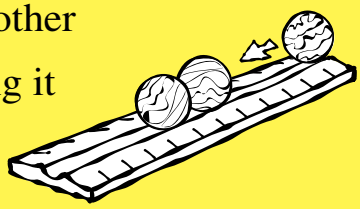
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What to Do

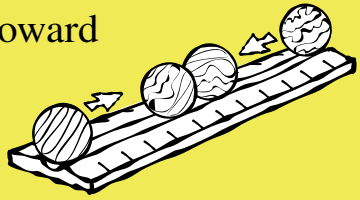
1. Place the ruler on a flat surface. Place two marbles of the same size on the ruler. Put them next to each other in the middle.



2. Place another same size marble at the end of the ruler. Roll it toward the other marbles. What happens? Try rolling it harder and softer.



3. Next, put one same size marble at either end of the ruler. Roll both at once toward the other marbles. What happens?



4. Put the large marble on one end of the ruler. What happens when you roll it toward the marbles in the middle?

