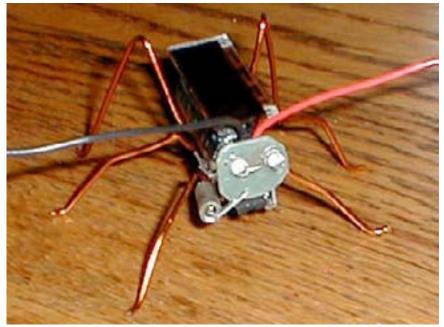


Forms of Energy

## How does electricity flow through a circuit?







MSSELL is a collaborative grant with Sam Houston State University and Texas A&M University funded by the National Science Foundation.

Adapted from Scott Foresman Science, ©Pearson Education, Inc. Copyright Lara-Alecio and Irby, 2009 - 2010.

## Dear Family,

WORD

Your child is learning about the changing forms of energy. We are learning the parts of a simple circuit, how electricity flows through a circuit, and what would happen if the circuit was missing.

In addition, your child is learning 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.

DEFINITION

	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
identify	to give the name of something or to recognize something
demonstrate	to show clearly
circuit	a closed path through which electricity travels
electromagnet (magnetic effects)	magnet created by an electric current, an electromagnet can be turned on or off

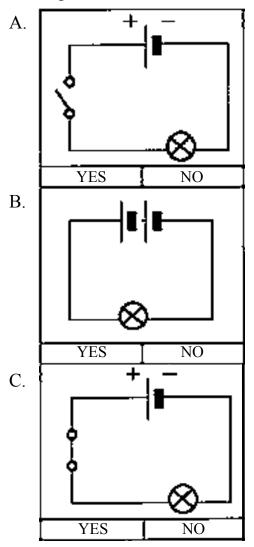
The following pages include activities that you and your child can do together. By participating in your child's education, you will help to bring the learning home.

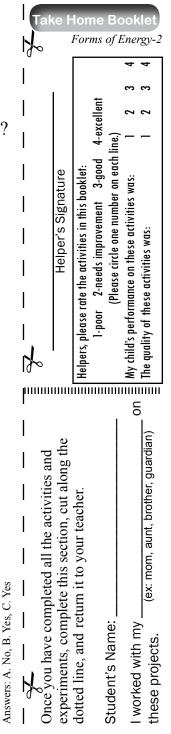
FUNFUN	Riddles	? Z
$\tilde{z}$	<b>Q:</b> Why did the foolish gardener plant a light bulk it: He wanted to grow a power plant.	? \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
FUNF	1: He wanted to grow a power plant.	\ \ \ \ \
FZZF	<b>How did Benjamin Franklin feel when he discovered electricity?</b>	<b>UN</b> FUN <i>FUI</i>
	1: He was shocked!	Z Z

## **Science Activity**

Will these circuits work?

- 1. Look at each circuit diagram below.
- 2. Do you think the bulbs will light?
- 3. Circle Yes or No below each diagram.





Now that you've had fun learning about the changing forms of energy. let's see what you remember. ENERGY IS . . . (check one)

	ENERGY IS (check one)
	A WHEN THE SURFACES OF TWO OBJECTS RUB AGAINST EACH OTHER.
	B THE ABILITY TO DO WORK.
	WHICH WILL NOT MAKE AN ELECTROMAGNET STRONGER? (check one)
	A USE A BIGGER BATTERY B REVERSE THE POLES OF THE MAGNET
	C USE A LARGER NAIL D ADD MORE COILS OF WIRE
3.	A LIGHT BULB WILL NOT LIGHT UP UNLESS THE ELECTRICAL CIRCUIT IS A CIRCUIT. (fill in the blank)
4.	WHEN THINKING ABOUT HOW A TV OR HAIR DRYER WORKS, WHICH IS A TRUE FACT ABOUT ENERGY? (check one)
	A ENERGY MOVES FROM LOW TO HIGH
	B ENERGY IS NEVER USED UP
	C ENERGY COMES FROM THE SUN D ENERGY CAN CHANGE FORMS
5.	WHICH OF THESE ELECTROMAGNETIC CHARGES DOES NOT REPEL EACH OTHER? (check one) A + + B + - C
6.	SOUND ENERGY IS CAUSED BY AN OBJECTS
	VIBRATIONS. (check one)  TRUE  FALSE