

LESSON 1: 20 minutes

Can you make a change in matter?

You observe many things changing. Birds change their positions when they fly. Bubbles form in boiling water. The filament in a lightbulb glows when you turn on a light. How can you cause a change in matter?

Procedure 🖾 🗷

- 1. Read and complete a lab safety form.
- **2.** Half-fill a **foam cup** with **sand.** Place the bulb of a **thermometer** about halfway into the sand. *Do not stir*. Record the temperature below.
- 3. Remove the thermometer and place a lid on the cup. Hold down the lid and shake the cup vigorously for 10 minutes.
- **4.** Remove the lid. Measure and record the temperature of the sand.

Think About This

Data and Observations

- 1. What change did you observe in the sand?
- 2. Predict how you could change your results.
- 3. Key Concept What do you think caused the change?

N ime		·	Date	Class
Content P	ractice A			LESSON 1
Forms of L	Energy			
	ach line, write the term than once or not at a		nk that correctly complete	es each sentence. Some terms
electrical	energy	kinetic	mechanical	nuclear
potential	radiant	sound	thermal	work
1. Energy due	to motion is	- 'w W	energy.	
	ed and mass.		energy an object has	depends on the
3. Energy that	is stored in the n	ucleus of an ato	om is	energy.
4. The ability	to cause change is	S	•	
5		energy is stored	energy.	
6. Energy that	is carried by an e	electric current i	s	energy.
	al, elastic, and ch		forms of	
8. The transfe	r of energy that o	ccurs when a fo	rce is applied over a	distance is
	is the total of the			y in an object or group
	of atoms and mol		ject due to their mot	cions is

12. Energy carried by electromagnetic waves is called ______ energy.

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11. Energy is the ability to do ______