

# Lesson 1: What is energy?

## Before You Read Lesson 1

Read each statement below. Place a check mark in the circle to indicate whether you agree or disagree with the statement.

	Agree	Disagree
1. Energy can be created and it can be destroyed.	<input type="radio"/>	<input type="radio"/>
2. If an object is moving, it has kinetic energy.	<input type="radio"/>	<input type="radio"/>
3. Another name for potential energy is stored energy.	<input type="radio"/>	<input type="radio"/>
4. An atom's nucleus holds a large amount of kinetic energy.	<input type="radio"/>	<input type="radio"/>

## After You Read Lesson 1

Reread each statement above. If the lesson supports your choice, place a check mark in the *Correct* circle. Then explain how the text supports your choice. If the lesson does not support your choice, place a check mark in the *Incorrect* circle. Then explain why your choice is wrong.

	Correct	Incorrect
1. _____ _____	<input type="radio"/>	<input type="radio"/>
2. _____ _____	<input type="radio"/>	<input type="radio"/>
3. _____ _____	<input type="radio"/>	<input type="radio"/>
4. _____ _____	<input type="radio"/>	<input type="radio"/>



**Notes for Home:** Your child has completed a pre/post inventory of key concepts in the lesson.

**Home Activity:** Have your child demonstrate how an object with more mass has more kinetic energy.

Name \_\_\_\_\_

## Reviewing Terms: Matching

Match each definition with the correct term. Write the letter on the line next to the definition.

- |   |                     |
|---|---------------------|
| _____ 1. energy due to motion   | a. energy           |
| _____ 2. the ability to do work or cause change   | b. potential energy |
| _____ 3. energy that is not causing any changes now but can cause changes in the future | c. kinetic energy   |

## Reviewing Concepts: True or False

Write T (True) or F (False) on the line before each statement.

- \_\_\_\_\_ 4. Every time energy changes form, some of it is given off as unusable heat.
- \_\_\_\_\_ 5. Slow-moving objects have more kinetic energy than fast-moving objects.
- \_\_\_\_\_ 6. Food is an example of chemical energy.
- \_\_\_\_\_ 7. A toy car sitting at the bottom of a ramp has potential energy.
- \_\_\_\_\_ 8. Energy cannot be created or destroyed.

## Writing

Use complete sentences to answer question 9. (2 points)

9. Describe a situation where energy is changed several times and heat, light, and/or sound are released.

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