

COMMENTS: Energy exists in many forms, but the energy in matter can be divided into kinetic energy and potential energy.

A Underline the correct answers.

1. Every object that can exert a force and move another object has (a. mechanical b. heat) energy.
2. Heat is a form of energy that causes (a. physical b. chemical) changes.
3. Electrical energy provides (a. heat b. light).
4. Heat causes most materials to (a. expand b. contract).
5. Sound is a form of (a. energy b. heat c. motion).
6. Chemical energy needs (a. a chemical change b. mechanical energy) to set it free.
7. Radiant energy (a. travels 186,000 miles a second b. travels at the speed of light).
8. Examples of radiant energy are (a. radio waves b. X rays c. infrared rays).
9. Energy exists in (a. many b. only a few) forms.
10. Some materials that contain chemical energy are (a. coal b. gasoline).
11. Energy can be (a. harnessed b. transformed c. destroyed).
12. Nearly all energy comes from the (a. sun b. earth c. ocean).

B Fill in the blanks.

1. Energy can be CHANGED in form or kind.
2. Heat is a form of _____ energy.
3. Stored energy is _____ energy.
4. Kinetic energy is the only kind that does _____.
5. Chemical energy is stored in _____.
6. All _____ objects have kinetic energy.
7. The _____ is the direct or indirect source of all energy.
8. Electric motors use _____.
9. The _____ energy of wind moves a sailboat.
10. Energy exists on _____ forms.
11. Plants use _____ energy to make food.
12. _____ energy is stored in uranium, plutonium, and hydrogen.

moving
work
chemical
various
potential
kinetic
sun
changed
nuclear
matter
mechanical
electrical current

C True or False

- T**
1. Heat makes most materials hot enough to burn.
 2. The sun is a source of radiant energy.
 3. The energy in matter can be divided into ten forms.
 4. A stretched rubber band has potential energy.
 5. Chemical energy is a form of mechanical energy.
 6. Moving energy is called potential energy.
 7. Energy must be transformed to run our machines.
 8. Every year we need more and more energy.
 9. Energy can be transformed but not destroyed.
 10. Energy cannot be created by man.

Energy Sources

