

CHAPTER 15 **STUDY GUIDE****Energy and Chemical Change****Section 15.1 Energy**

In your textbook, read about the nature of energy.

In the space at the left, write *true* if the statement is true; if the statement is false, change the italicized word or phrase to make it true.

1. Energy is the ability to do work or produce heat.
2. The law of conservation of energy states that energy *can be* created and destroyed.
3. Chemical potential energy is energy stored in a substance because of its *composition*.
4. *Heat* is a form of energy that flows from a warmer object to a cooler object.
5. A calorie is the amount of energy required to raise the temperature of *one gram* of pure water by one degree Celsius.
6. A *calorie* is the SI unit of heat and energy.
7. The *specific* heat of a substance is the amount of heat required to raise the temperature of one gram of that substance by one degree Celsius.
8. *Kinetic* energy is energy of motion.
9. Chemicals participating in a chemical reaction contain only *potential energy*.
10. One nutritional Calorie is equal to *100 calories*.
11. One calorie equals *4.184 joules*.
12. When a fuel is burned, some of its *chemical potential energy* is lost as heat.
13. To convert kilojoules to joules, *divide* the number of kilojoules by 1000 joules/1 kilojoule.

Answer the following question. Show all your work.

14. If the temperature of a 500.0-g sample of liquid water is raised 2.00°C, how much heat is absorbed by the water? The specific heat of liquid water is 4.184 J/(g·°C).

Chemistry Matter And Change Chapter 13 Study Guide Answer Key

Michal Rosen-Zvi

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