# 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.

- Energy is the ability to do work or produce heat.
- The law of conservation of energy states that energy can be created and destroyed.
- Chemical potential energy is energy stored in a substance because of its composition.
- 4. Hear is a form of energy that flows from a warmer object to a cooler object.
- 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.
- 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.
- 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.
- To convert kilojoules to joules, divide the number of kilojoules by 1000 joules/1 kilojoule.

Answer the following question. Show all your work.

 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).

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**IM Harris** 

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