

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## CHAPTER 16

## STUDY GUIDE FOR CONTENT MASTERY

## Energy and Chemical Change

## Section 16.1 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.

- True \_\_\_\_\_ 1. Energy is the ability to do work or produce heat.
- cannot be \_\_\_\_\_ 2. The law of conservation of energy states that energy can be created and destroyed.
- True \_\_\_\_\_ 3. Chemical potential energy is energy stored in a substance because of its composition.
- True \_\_\_\_\_ 4. Heat is a form of energy that flows from a warmer object to a cooler object.
- True \_\_\_\_\_ 5. A calorie is the amount of energy required to raise the temperature of one gram of pure water by one degree Celsius.
- False \_\_\_\_\_ 6. A calorie is the SI unit of heat and energy.
- True \_\_\_\_\_ 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.
- True \_\_\_\_\_ 8. Electric energy is energy of motion.
- both potential and kinetic energy \_\_\_\_\_ 9. Chemical potential energy in a chemical reaction consists only of potential energy.
- 1000 calories \_\_\_\_\_ 10. One nutritional Calorie is equal to 100 calories.
- True \_\_\_\_\_ 11. One calorie equals 4.184 joules.
- True \_\_\_\_\_ 12. When a fuel is burned, some of its chemical potential energy is lost as heat.
- multiply \_\_\_\_\_ 13. To convert kilojoules to joules, divide the number of kilojoules by 1000 joules/1 kilojoule.

Answer the following questions. Show all your work.

14. If the temperature of a 500-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.

$$Q = c \cdot m \cdot \Delta T$$

$$Q = 4.184 \text{ J/g}\cdot\text{°C} \times 500 \text{ g} \times 2.00\text{°C}$$

$$Q = 4.184 \times 10^3 \text{ J} = 4.18 \text{ kJ}$$

Study Guide for Content Mastery

Chemistry: Matter and Change • Chapter 16

B1

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## CHAPTER 16

## STUDY GUIDE FOR CONTENT MASTERY

## Section 16.2 Heat in Chemical Reactions and Processes

In your textbook, read about measuring heat and about chemical energy and the universe.

For each item in Column A, write the letter of the matching item in Column B.

- |  |  |
|--|--|
| <p><u>b</u> _____ 1. An isolated device used to measure the amount of heat absorbed or released during a chemical or physical process.</p> <p><u>c</u> _____ 2. The study of heat changes that accompany chemical reactions and phase changes.</p> <p><u>d</u> _____ 3. The specific part of the universe that contains the reaction or process you wish to study.</p> <p><u>f</u> _____ 4. The change in enthalpy in a chemical reaction.</p> <p><u>d</u> _____ 5. A system plus its surroundings.</p> <p><u>e</u> _____ 6. The heat content of a system at constant pressure.</p> <p><u>g</u> _____ 7. Everything in the universe except the system being studied.</p> | <p><u>Column A</u></p> <p><u>Column B</u></p> <p><u>a</u> system</p> <p><u>b</u> calorimeter</p> <p><u>c</u> thermodynamics</p> <p><u>d</u> universe</p> <p><u>e</u> enthalpy</p> <p><u>f</u> enthalpy change of reaction</p> <p><u>g</u> surroundings</p> |
|--|--|



For the illustration to answer the following questions.

8. A solution is reacting in the solution in the flask. What is the system?  
The system is the solution of NaOH and NH<sub>4</sub>NO<sub>3</sub>.
9. What are the surroundings?  
The surroundings include everything except the solution.
10. What is the universe?  
The universe is the solution plus the surroundings.

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Chemistry: Matter and Change • Chapter 16

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# Chapter 16 Study Guide Answers Energy Chemical Change

**JA Banks**



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