

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.

- _____ 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).

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Chao Zhang



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Chemistry Steven S. Zumdahl, Susan A. Zumdahl, 2000 Zumdahl's conceptual approach to problem solving early and thorough treatment of reactions and integration of descriptive chemistry and chemical principles throughout are key elements to the success of this bestseller By encouraging students to understand qualitative concepts before considering quantitative problems *Chemistry* helps students build a solid understanding of topics and avoid common misconceptions The text also includes new Chemical Impact boxes that present everyday applications of chemistry plus over 200 redesigned illustrations with greater clarity and emphasis on molecular level illustrations **Resources in Education**, 1984

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 Documentation Abstracts, 1985

Journal of the American Dietetic Association, 1988

Essentials of Ecology George Tyler Miller, 2006-09 G Tyler Miller

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Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples **Student Study**

Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, Rachel C. Lum, 2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to

help them avoid common mistakes and understand key concepts After a brief review of each section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered exercises in the text

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