

**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).

# Energy And Chemical Change Study Guide Answers

**Guillaume Favre**



## **Energy And Chemical Change Study Guide Answers:**

## Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Energy And Chemical Change Study Guide Answers**

In a world inundated with displays and the cacophony of immediate transmission, the profound power and psychological resonance of verbal artistry usually disappear into obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, located within the lyrical pages of **Energy And Chemical Change Study Guide Answers**, a charming work of fictional elegance that pulses with natural thoughts, lies an remarkable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this enchanting opus guides viewers on a psychological odyssey, gently exposing the latent possible and profound influence embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is central themes, dissect its interesting writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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