

## Energy Study Guide Answer Key

1. Energy is the ability to do work or cause change and occurs in many forms.
2. The two main types of energy are potential energy and kinetic energy.
3. Define Potential Energy: Potential energy is stored energy or energy at rest. Potential energy can be increased or decreased due to position or condition.
4. Which skier (A, B, or C) has more potential energy in the picture below? Skier C has the most potential energy because he/she has the ability to fall further.
5. Define Kinetic Energy: Kinetic energy is energy of motion or movement. Anything in motion has kinetic energy. Kinetic energy can be increased or decreased due to potential energy increasing or decreasing.
6. The amount of kinetic energy a moving object has depends on its mass and its speed.
7. In each of the following pairs, CIRCLE which would have more kinetic energy rolling down a hill:
  - a. boulder
  - b. bowling ball
  - c. Hummer
- d. WHY did you choose the ones you circled? These objects have more mass so they will have more kinetic energy rolling down a hill.
8. In the picture below, when does the swinger have the most potential energy? The swinger has the most potential energy at the A position.

When does the swinger have the most kinetic energy? The swinger has the most potential energy at the B position.

When does the swinger switch from potential to kinetic energy? The swinger switches from potential to kinetic energy as she reaches the top of her swing (potential to kinetic) and the bottom of her swing (kinetic to potential).

9. If an object has more potential energy, how does this affect that object's kinetic energy? If an object's potential energy increases, the object's kinetic energy will also increase.

### FORMS OF ENERGY

10. What is the definition of Sound energy? Sound energy is the movement of sound waves caused by vibrations.

Example(s) of sound energy: Playing the guitar, violin, singing, etc.

11. What is the definition of Chemical energy? Chemical energy is stored in atoms and molecules and released in chemical reactions that usually produce heat.

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**RD Boyd**

## **Energy Study Guide Answer Key:**

*Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e* Kenneth W. Raymond,2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond's text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry

**Biomass as a Sustainable Energy Source for the Future** Wiebren de Jong,J. Ruud van Ommen,2014-11-03 Focusing on the conversion of biomass into gas or liquid fuels the book covers physical pre treatment technologies thermal chemical and biochemical conversion technologies Details the latest biomass characterization techniques Explains the biochemical and thermochemical conversion processes Discusses the development of integrated biorefineries which are similar to petroleum refineries in concept covering such topics as reactor configurations and downstream processing Describes how to mitigate the environmental risks when using biomass as fuel Includes many problems small projects sample calculations and industrial application examples

**Resources in education** ,1983-06 **Modules** McDougal Littell Incorporated,2005 **Study Guide for Man, Nature, and Society** Theodore W. Pohl,L. Jack Pierce,1975 *Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry* Katherine J. Denniston,Denniston Katherine,2006 *Biological Sciences Curriculum Study Journal* Biological Sciences Curriculum Study,1978 **Chemical Interactions** ,2005 *Matter and Energy* ,2005 *Heat Energy: Student text* ,1997 **Instructional Materials** University of Illinois at Urbana-Champaign. Vocational Agriculture Service,1992 **Vocational Agriculture News and Notes** ,1985 *Nutrition* Kim Anthony Aaronson,Janice Thompson,2005-11 This guide has been updated to reflect the new material in the main text update It offers a wide variety of interesting relevant and challenging questions to encourage students to review core concepts It also contains chapter objectives and key terms

**National Union Catalog** ,1973 Includes entries for maps and atlases

**Heat Energy** ,1993 **Motion and Forces** ,2005 *Prentice Hall Chemistry* ,2000 **Archives of Neurology and Psychopathology** ,1899 **Fundamentals of General, Organic, and Biological Chemistry** Susan McMurry,2006-07 The Study Guide and Full Solutions Manual explain in detail how the answers in text and end of chapter problems are obtained They also contain chapter summaries study hints and self tests for each chapter

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