

***Biology for the AP® Course: Active Reading Guide***  
**Unit 3 Cellular Energetics**  
**Module 19 Metabolism, the Environment, and Evolutionary Fitness**

**Introduction**

1. Identify the two forms of energy.
  - a. Potential
  - b. Kinetic
  
2. Identify four types of work cells use energy to perform.
  - a. Chemical
  - b. Transport
  - c. Mechanical
  - d. electrical
  
3. In addition to the four types of work identified in the previous question, cells use energy to stay organized and maintain homeostasis, which is critical for cell survival.
  
4. Identify the two sources of energy for all cells.
  - a. sunlight
  - b. chemical energy
  
5. Explain the statement, "Photosynthesis and cellular respiration are complementary metabolic processes."

The process of photosynthesis is plants converting sunlight, water and CO<sub>2</sub> into glucose and oxygen. The stored chemical energy in glucose is then used by cells during cellular respiration to produce ATP aka adenosine triphosphate.
6. Describe the pathway of carbon through the energy reactions, starting with photosynthesis.

Photosynthesis is the process of plants using sunlight and then convert it into energy stored as glucose which then releases the carbon dioxide and the water. These products serve as reactions to each other, which creates an ongoing cycle.

# Active Guide Chapter 34

**United States. Veterans  
Administration**



## Active Guide Chapter 34:

**Story Of The World #2 Middle Ages Activity Book** Susan Wise Bauer, 2008-02-26 Presents a history of the ancient world from 6000 B C to 400 A D    *Education Procedures* ,1992    *Human Heritage* Miriam Greenblatt, Peter S. Lemmo, 2001 A world history textbook chronicling the rise of Western and Eastern civilizations Includes photos art illustrated charts vocabulary exercises and review questions    **Story of the World Activity Book 4 Modern Age** Susan Wise Bauer, 2005-11-29 Presents a history of the ancient world from 6000 B C to 400 A D    Veterans' Education and Readjustment Legislation, 1977 United States. Congress. House. Committee on Veterans' Affairs. Subcommittee on Education and Training, 1977    **Story Of The World Ancient Times Activity Book 1 3e** Susan Wise Bauer, 2006-11 Presents a history of the ancient world from 6000 B C to 400 A D    **Active Learning Workbook for Wilkins' Clinical Practice of the Dental Hygienist** Jane F. Halaris, Charlotte J. Wyche, 2020-01-16 Designed to accompany Wilkins Clinical Practice of the Dental Hygienist Thirteenth Edition this engaging active learning workbook reinforces important concepts of the main text    **Oversight Hearings on All Forms of Federal Student Financial Assistance** United States. Congress. House. Committee on Education and Labor. Subcommittee on Postsecondary Education, 1977    **Official Export Guide** North American Publishing Company, 1990    **Inst Course Guide West Bus Law** Clarkson, 2003-06    **Manual of instruction in army signalling. [Continued as] Signalling instructions [afterw.] regulations. [Continued as] Training manual-signalling. [With] Amendments. [Continued as] Signal training. [With] Amendments** War office, 1921    **Training Guide** United States. Veterans Administration, 1991    **Service Publication** Australia. Dept. of Health, 1925    **Your Federal Income Tax for Individuals** ,2002    **The Introduction of Adam Smith's Doctrines Into Germany** Carl William Hasek, 1925 Proposes to show the channels by which and the conditions under which the ideas of Adam Smith concerning the wealth of nations entered into Germany and created changes    **European Pamphlets** ,1925    *Columbia University Studies in the Social Sciences* ,1925    Columbia Studies in the Social Sciences ,1925    **The Roman Colonate** Roth Clausen, 1925    *Fitness and Exercise Sourcebook* Dan R. Harris, 1996 Physical fitness is often defined as the ability to perform typical activities and chores such as raking leaves or cleaning windows without getting fatigued Achieving this level of fitness requires a regimen of moderate aerobic activity such as walking cycling swimming or jogging for only 20 to 30 minutes 3 or 4 days a week Currently only one fourth of the U S population is engaged in light to moderate physical activity This statistic is alarming since research has shown that physical activity is linked to reducing risk of chronic diseases such as diabetes cancer and heart disease now the leading causes of death in the United States The Fitness and Exercise Sourcebook provides the layperson with the latest information regarding physical activity and its benefits to healthy living

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