

Cells and Energy Study Guide

1. Which of the following statements is true for *all* cells?
 - a. They use solar energy.
 - b. They use photosynthesis.
 - c. They use chemical energy.
 - d. They use chemosynthesis.
2. Which phrase best describes the function of the ATP molecule?
 - a. uses energy
 - b. carries energy
 - c. absorbs energy
 - d. converts energy
3. Where does the chemical energy to produce ATP come from?
 - a. the conversion of ATP to ADP
 - b. the use of chemicals from the environment to build sugars
 - c. the addition of a phosphate group to ATP
 - d. the breakdown of carbon-based molecules such as glucose into smaller molecules
4. Energy is released from an ATP molecule for cellular processes when it
 - a. has a phosphate group removed.
 - b. stores an extra phosphate group.
 - c. converts a phosphate group to ADP.
 - d. produces a sugar molecule.
5. Which of the following statements best describes the process of photosynthesis?
 - a. Plants use oxygen to make simple sugars.
 - b. Chlorophyll builds sugars in the matrix.
 - c. Light breaks down water molecules and releases carbon dioxide.
 - d. Chloroplasts absorb sunlight and store chemical energy as food.
6. What is the term for an organism that makes its own source of chemical energy?
 - a. decomposer
 - b. producer
 - c. chloroplast
 - d. protist
7. The main light-absorbing pigments found in plant leaves are called
 - a. mitochondria
 - b. thylakoids
 - c. chlorophyll
 - d. grana
8. The function of the light-dependent reactions is to
 - a. build sugars.
 - b. capture and transfer energy.
 - c. release carbon dioxide.
 - d. form water molecules.
9. The light-independent reactions of photosynthesis need
 - a. carbon dioxide.
 - b. oxygen.
 - c. water.
 - d. cellulose.
10. Which of the following types of organisms uses cellular respiration for their cellular energy needs?
 - a. eukaryotes
 - b. plants only
 - c. animals only
 - d. prokaryotes
11. Which process breaks down sugars to make ATP when oxygen is present?

Cells And Energy Study Guide

Susan McMurry

Cells And Energy Study Guide:

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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Study Guide and Solutions

Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition John McMurry,Susan McMurry,1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter

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

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