

Cells and Energy

Study Guide B**Answer Key****SECTION 1. CHEMICAL ENERGY AND ATP**

- adenosine triphosphate (ATP)
- a molecule that transfers energy from the breakdown of food molecules to cell processes
- ATP is a high-energy molecule that is converted into lower-energy ADP when a phosphate group is removed and energy is released. ADP is converted back into ATP by the addition of a phosphate group.
Cycle Diagram: High-energy adenosine triphosphate (ATP); phosphate removed, energy released; lower-energy adenosine diphosphate (ADP); energy added from breakdown of carbon-based molecules, phosphate added.
- molecules most commonly broken down; glucose yields about 36 ATP; 4 calories per mg (4-Calories per gram)
- same amount of energy in a person's body; triglyceride yields about 145 ATP; 9 calories per mg (9-Calories per gram)
- least likely to be broken down; same about the same amount of energy as a mitochondrion; 4 calories per mg (4-Calories per g)
- a process by which some organisms use chemical energy instead of light energy to make energy-storing carbon-based molecules
- ATP has three phosphate groups; ADP has two phosphate groups
- Together, they mean "to put together with chemical energy." In chemosynthesis, chemical energy is used to produce carbon-based molecules that store energy.

SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

- they produce the source of chemical energy for themselves and for other organisms
- to capture light energy to make sugars that store chemical energy

- a molecule in chloroplasts that absorbs some of the energy in visible light
- membrane-bound organelles where photosynthesis takes place in plants
- stroma and grana
- coin-shaped, membrane-enclosed compartments inside the grana
- $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
Carbon dioxide and water (the reactants) enter photosynthesis. Through many chemical reactions, with the help of many enzymes, a six-carbon sugar and oxygen (the products) are formed.
- The light-dependent reactions require light, and they absorb and transfer energy. The light-independent reactions do not directly need light, and they build sugars.
Labels for Chloroplast Steps: (1) Energy from sunlight is absorbed and transferred along the thylakoid membrane. Water molecules are broken down and oxygen is released. (2) Energy stored along the thylakoid membrane is transferred to molecules that carry energy to the light-independent reactions. (3) Carbon dioxide is added to a cycle of chemical reactions to build larger molecules. (4) A six-carbon simple sugar (usually glucose) $\text{C}_6\text{H}_{12}\text{O}_6$ is formed.
- Energy from light is used to put sugars together.
- Chlorophyll *a* is the light-absorbing molecule that makes leaves look green.
- The light-dependent reactions require sunlight; the light-independent reactions can occur without sunlight.

SECTION 3. PHOTOSYNTHESIS IN DETAIL

- to capture and transfer energy
- groups of molecules that capture and transfer energy

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Maththematics Book 1, Grade 6 Workbook Holt Mcdougal,2001 Children's Books in Print, 2007 ,2006 **El-Hi Textbooks and Serials in Print** ,2006 **Learning in the Cloud** Mark Warschauer,2015-04-17 This comprehensive and cutting edge book portrays a vision of how digital media can help transform schools and what kinds of curriculum pedagogy assessment infrastructure and learning environments are necessary for the transformation to take place The author and his research team spent thousands of hours observing classes and interviewing teachers and students in both successful and unsuccessful technology rich schools throughout the United States and other countries Featuring lessons learned as well as analysis of the most up to date research they offer a welcome response to simplistic approaches that either deny the potential of technology or exaggerate its ability to reform education simply by its presence in schools Challenging conventional wisdom about technology and education Learning in the Cloud critically examines concepts such as the digital divide 21st century skills and guide on the side for assessing and guiding efforts to improve schools combines a compelling vision of technology s potential to transform learning with an insightful analysis of the curricular challenges required for meaningful change and discusses the most recent trends in media and learning such as the potential of tablets and e reading **Fostering Cognitive Mathematics Skills with Matchstick Puzzles** Josip Slisko,2026-01-18 The book presents the history and forms of geometric and arithmetic matchstick puzzles giving special attention to the different editions of the first book on matchstick puzzles and games published in 1889 by Sophus Tromholt Many of the puzzles and solutions from this book appear still today in the same or slightly different forms One particular puzzle with an erroneous solution is especially interesting It appeared in a few of the first editions but later Tromholt excluded it Nevertheless posterior book authors continue to repeat that erroneous solution until today The book also presents which matchstick puzzles appear in books written by authors who used matchstick puzzles before and after Tromholt and famous authors of recreational mathematics A section of the book is dedicated to commenting on how matchstick puzzles are used in different research fields from learning and teaching problem solving to creative thinking The book critically analyses the past and actual usage of matchstick puzzles with multiple solutions These puzzles if properly used have a great potential to increase cognitive mathematics skills of puzzle solvers of every age These skills include Strategic analysis and solution planning Mathematical creativity Critical thinking Avoiding self imposed cognitive biases Space visual intelligence Combinatory thinking Unfortunately when only one solution is given to puzzle solvers as it is common the chance for increasing cognitive mathematics skills is lost As such this book takes care to highlight the controversial theoretical issue of what are different solutions of a matchstick puzzle It

considers the value of solutions obtained by rotation or mirror reflection for increasing the visual intelligence of puzzle solvers This book is of interest to researchers in cognitive psychology and educational mathematics who are interested in using matchstick puzzles to explore the relationships between different cognitive skills and levels of performance in solving matchstick puzzles It is also of interest to mathematics teachers at various educational levels interested in using matchstick puzzles to foster development of cognitive mathematics skills and puzzle posing abilities in their students **El-Hi**

Textbooks & Serials in Print, 2005 ,2005 **Middle School Math, Course 2** Holt McDougal,2004 **Adventures in Literature, Teaching Resource C (Unit 5-6)** Holt, Rinehart and Winston Staff,1996 Elements of Literature Henry Holt & Company, LLC,1989 **Precalculus** Holt McDougal,2004 Holt Science and Technology Holt, Rinehart and Winston Staff,2000-12 Holt Science and Technology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2000-05-01

Roll of Thunder, Hear My Cry Holt,Mildred D. Taylor,1989 The vivid story of a black family whose warm ties to each other and their land give them strength to defy rural Southern racism during the Depression Entirely through its own internal development the novel shows the rich inner rewards of black pride love and independence despite the certainty of outer defeat Booklist starred review Newbery Medal Award American Book Award Honor Book An ALA Notable Book A NCSS CBC Notable Children s Trade Book in the Field of Social Studies A Boston Globe Horn Book Award Honor Book *Science Spectrum* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 Books in Print ,1962 *Holt McDougal Earth Science: Interactive Reader and Study Guide Answer Key* ,2010

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