

Chapter 9

Energy in a Cell

Reinforcement and Study Guide

Section 9.1 The Need for Energy

In your textbook, read about cell energy.

Use each of the terms below just once to complete the passage.

energy
ATP

phosphate
chemical bonds

adenine
work

charged
ribose

To do biological (1) work, cells require energy. A quick source of energy that cells use is the molecule (2) ATP. The (3) energy in this molecule is stored in its (4) chemical bonds. ATP is composed of a(n) (5) adenine molecule bonded to a(n) (6) ribose sugar. Three (7) charged molecules called (8) phosphate groups are attached to the sugar.

In your textbook, read about forming and breaking down ATP and the uses of cell energy.

Examine the diagram below. Then answer the questions.



9. How is energy stored and released by ATP?

Energy that is used to add a phosphate group to ADP becomes stored as a chemical bond in the resulting ATP molecule. The stored energy is released when ATP is broken down to ADP and a phosphate group.

10. How do cells use the energy released from ATP?

Cells use energy to make new molecules, maintain homeostasis, transmit nerve impulses, move, produce light, etc.

9th Grade Science Concepts

Barbara M. Fife



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Science Starters: Elementary General Science & Astronomy Parent Lesson Planner, 2014-04-01 Science Starters General Science materials for each semester are independent of one another to allow flexibility Semester 1 General Science Investigate the Possibilities Elementary General Science Water Weather From the Flood to Forecasts Semester 2 Astronomy Investigate the Possibilities Elementary Astronomy The Universe From Comets to Constellations **Life Science: Origins & Scientific Theory Parent Lesson Plan**, 2013-08-01 How to use this lesson planner This course is intended to help a student assess information about evolution and creation and based on the information provided for each form his or her own understanding of this issue The author spent 30 years in a challenge to prove evolution yet the more he learned the more the truth of God s Word became apparent in the evidence and interviews he found while travelling the world speaking to scholars museum officials and viewing artifacts While originally designed for classroom use this course represents substantial value and flexibility for those who choose to home educate The content and organization of the teacher manual means that this course can be used by more than one student at a time or even multiple times for a single student without reusing course testing materials Chapter Objectives These are presented in a way that is perfect for students to answer in a notebook having students copy the question and then answer in the notebook is even more helpful by putting the question and answer in proximity and context These notes in combination with the chapter tests are excellent resources for preparing for sectional tests if given or a final exam at the end Chapter objective can be shared with a student or students and then kept in a binder for future use if needed Students are also encouraged to keep these questions and answers for pre test studying Chapter Exams For each chapter an A B and C test is provided in the teacher s manual Here is how you can extend your use of this material Option 1 You can follow the instructions in the book which are designed for one student Or you can modify one of the following options for your student and still have enough course materials to use the course multiple times Option 2 You could have up to three students taking the course at the same time with each student having different tests if you assign each Test A to one student Test B to another and Test C to a third This insures each student has a different test and educators can better assess each student s individual understanding of the material at each point Alternate sectional and final exams are included in this manual for your convenience Option 3 Adjust the testing and materials to your educational program For example each chapter test could be used as additional worksheet material for one or more students with only the included sectional exams to be administered Or even just use a final exam for testing comprehension of material if you wish to assign several essays project or a term paper based on individual questions of your choice from the exams and objectives or based on a chapter topic This option would allow for additional writing and research opportunities and for some students while engaging them more fully in comprehension and application of knowledge for this educational material Sectional Exams If used for a single student a combination of B tests from the teacher s manual form the basis of a sectional exam Alternate

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