

Cellular Energy Study Guide

1. What is the difference between anabolic and catabolic pathways?

Catabolic pathways release energy by breaking down complex molecules into simpler compounds

Anabolic pathways, called biosynthetic pathways, consume energy to build complex molecules from simpler ones

2. The study of how energy flows through living systems is called bioenergetics.

3. Give 2 examples of catabolic pathways and 2 examples of anabolic pathways.

Catabolic Pathways:

- Glycolysis:

Process: Glycolysis is a catabolic pathway that occurs in the cytoplasm of cells and involves the breakdown of glucose (a six-carbon sugar) into two molecules of pyruvate (a three-carbon compound).

Energy Release: During glycolysis, a small amount of energy is released, and some of it is captured in the form of ATP and NADH.

- Krebs Cycle (Citric Acid Cycle):

Process: The Krebs cycle takes place in the mitochondria and is part of the aerobic respiration process. It involves the further breakdown of pyruvate produced during glycolysis into carbon dioxide, generating NADH and FADH₂.

Energy Release: The Krebs cycle contributes to the production of additional NADH and FADH₂, which carry high-energy electrons to the electron transport chain.

Anabolic Pathways:

- Protein Synthesis:

Process: Protein synthesis is an anabolic pathway that occurs in the ribosomes of cells. It involves the assembly of amino acids into polypeptide chains, which then fold into functional proteins.

Energy Input: The synthesis of proteins requires the input of energy in the form of ATP.

- Photosynthesis:

Process: Photosynthesis is an anabolic pathway that occurs in the chloroplasts of plant cells. It involves the synthesis of glucose from carbon dioxide and water, using light energy captured by chlorophyll.

Energy Input: Photosynthesis requires energy from sunlight to drive the conversion of carbon dioxide and water into glucose and oxygen.

4. Describe each of the following:

Energy is the capacity to cause change

- Kinetic Energy - energy associated with motion
- Potential Energy - energy that matter possesses because of its location or structure
- Thermal Energy - kinetic energy associated with random movement of atoms or molecules
- Chemical Energy - potential energy available for release in a chemical reaction

Cellular Energy Study Guide Answers

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Cellular Energy Study Guide Answers:

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ROM package along with test taking strategies rationales and top 10 challenge questions to test your knowledge in each subject area

Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh,2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application

Study Guide George Karleskint,1991

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evidence to justify their responses

Modules McDougal Littell Incorporated,2005

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Laboratory Directions and Study Questions in Inorganic Chemistry Alexander

Silverman,1919 **Archives of Neurology and Psychopathology** ,1899 **Gage Canadian GED Study Guide Series**

Kathy Austin,1998 *Cell and Molecular Biology, Problems Book and Study Guide* Gerald Karp,2001-09-25 Balances coverage of the concepts of cell and molecular biology using examples of experimentation to support those concepts As experimental techniques become more diverse and complex it is increasingly necessary to identify individual studies that have a broad impact on our understanding of cell biology This text describes in detail some of the key experimental findings along with the original data and figures

Study Guide and Workbook, an Interactive Approach for Starr and

McMillan's Human Biology, Third Edition Jane B. Taylor,John D. Jackson,1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions

The Sciences, Study Guide James Trefil,Anthony J. Gaudin,Robert

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Study Guide for Man, Nature, and Society Theodore W. Pohlte,L. Jack Pierce,1975 [Student Study Guide for Biology \[by\] Campbell/Reece/Mitchell](#) Martha R. Taylor,1999

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