

Biology Chapter 6 – Review

Nutrition: taking in useful substances

Photosynthesis: the process by which plants synthesize carbohydrates from raw materials using energy from light



carbon dioxide + water \rightarrow (sunlight and chlorophyll) \rightarrow glucose + oxygen

**respiration: glucose + oxygen \rightarrow carbon dioxide + water + energy

Process:

- 1) Light dependent reactions – water is turned to oxygen (2:1 molecules)
 - Tested through using isotopes of O_2 for water and carbon dioxide; oxygen contained isotope of oxygen that was used for water
- 2) Light independent reactions – carbon dioxide and water is turned to glucose

Chlorophyll: the pigment that makes plants look green

- Can absorb solar energy, combine carbon dioxide with water to make glucose
- Requires magnesium ions
- Converts light energy to chemical energy

Uses of glucose

For energy:

- For active transport (moving mineral ions to root hairs)
- Building proteins by amino acids
- (energy is released from glucose by respiration)

Stored as starch:

- Lots of glucose molecules are linked to form starch
- They are stored in the leaf; starch molecules are insoluble in water
 - o They are not involved in the chemical equations taking place inside the cells
 - o Do not affect the concentration of the solutions, so water does not enter/leave by osmosis
- Can quickly and easily be broken down to glucose molecules when needed

Changed to sucrose for transport:

- Glucose is changed to sucrose (larger molecules) and it is carried to other parts through phloem tubes
 - o Only leaves make glucose but all parts require it
- Once it reaches its destination, it changed back to glucose and is used in respiration

To make cellulose to build cell walls:

- Hard to be broken down to glucose
 - o Function of the cell wall is to support the cell

Used to make nectar to attract pollinators:

- Plants need insects, birds and bats to help them sexually reproduce

Used to make proteins and other substances:

- For example, chlorophyll (requires magnesium and nitrate ions *through active transport, which needs energy*)

Biology Chapter 6 Study

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Biology Chapter 6 Study :

CliffsNotes HESI A2 Science Cram Plan Michael Reid,2021-04-13 A study guide for the HESI A2 science nursing school test that calendarizes a study plan for test takers depending on how much time they have left before taking the test Get a plan and make the most of the time you have left Whether you have two months one month or one week left before the exam you can turn to the experts at CliffsNotes for a trusted and achievable cram plan to ace the HESI A2 Science without ever breaking a sweat First you ll determine exactly how much time you have left to prepare for the exam Then you ll turn to the two month one month or one week cram plan for week by week and day by day schedules of the best way to focus your study according to your unique timeline Each stand alone plan includes Diagnostic tests help you pinpoint your strengths and weaknesses so you can focus your review on the topics in which you need the most help Subject areas review of material you should know for the exam biology chemistry anatomy and physiology and physics Practice exams with answers and detailed explanations *Biology of Home and Community* Gilbert Haven Trafton,1923 **OAT 2017-2018 Strategies, Practice & Review with 2 Practice Tests** Kaplan Test Prep,2016-10-04 Issued with 16 pages of detachable study sheets and access to two full length practice tests [DAT 2017-2018 Strategies, Practice & Review with 2 Practice Tests](#) Kaplan Test Prep,2016-10-04 2 full length online practice tests Cover *AP Biology* Mark Anestis,2006-12 Provides a study plan to build knowledge and confidence discusses study skills and strategies provides two practice exams and includes a review of the core concepts covered by the material **The Nature-study Review** ,1914 [Biology](#) Eric Strauss,Marylin Lisowski,2000

Clinical Research Informatics Rachel L. Richesson,James E. Andrews,Kate Fultz Hollis,2023-06-14 This extensively revised new edition comprehensively reviews the rise of clinical research informatics CRI It enables the reader to develop a thorough understanding of how CRI has developed and the evolving challenges facing the biomedical informatics professional in the modern clinical research environment Emphasis is placed on the changing role of the consumer and the need to merge clinical care delivery and research as part of a changing paradigm in global healthcare delivery Clinical Research Informatics presents a detailed review of using informatics in the continually evolving clinical research environment It represents a valuable textbook reference for all students and practising healthcare informatics professional looking to learn and expand their understanding of this fast moving and increasingly important discipline [Science](#) John Michels (Journalist),1903 Vols for 1911 13 contain the Proceedings of the Helminthological Society of Washington ISSN 0018 0120 1st 15th meeting [The Teaching of Nature Study and Elementary Science for Grades Kindergarten to Eight](#) New Jersey. Department of Public Instruction,1929 *Teacher's Wraparound Edition: Twe Biology Everyday Experience* Albert Kaskel,1994-04-19 **Human Biology** Raymond Pearl,1929 Includes section Recent literature useful in the study of human biology **The New History and the Social Studies** Harry Elmer Barnes,1925 Adopted by woodchucks at birth a baby goose never feels she truly belongs until the day she discovers she can fly **Resources in Education** ,1995-05

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