

BIOLOGY / Chapter 6 Photosynthesis Study Guide

**This study guide is meant as a GUIDE. It is not a substitute to studying the notes or learning the vocabulary or completing the review sheet. **

- Energy flows from the sun and through all life on earth.
- Autotrophs use the sun to make food directly while heterotrophs must consume other organisms for food.
- ATP (energy) stands for Adenosine Triphosphate.
- Photosynthesis is the process where plants use the sun's energy to make food.
Photosynthesis: Stores energy from sunlight in glucose molecules
- Know the equation: $6 \text{ CO}_2 + 6 \text{ H}_2\text{O} + (\text{light}) \text{ energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2$
 - Carbon Dioxide + Water + Sunlight (energy) \rightarrow Glucose + Oxygen
- Photosynthesis takes place in chloroplasts where plant pigments absorb light.
- Explain photosynthesis as a biochemical pathway.
- Understand light, temperature and CO_2 all affect the rate of photosynthesis
- Review the visible light spectrum - i.e. different wavelengths produce different colors: colors are a reflection of that wavelength.
- Chlorophyll is the main pigment involved in photosynthesis, absorbing red and blue light and reflecting green (why plants look green).
 - Accessory pigments (i.e. carotenoid) are also involved in helping to capture light.
 - During autumn, as the chlorophyll breaks down, the other pigments become visible, changing the colors of the leaves.
- Identify the difference between autotrophs and heterotrophs

Review the structure of the chloroplast. Pay special attention to the labeled parts.



Photosynthesis Biology Study Guide Answers

**David E. Sadava, Gordon H.
Orians, Craig Heller, William K. Purves**



Photosynthesis Biology Study Guide Answers:

AP Biology Study Guide Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test *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 *O Level Biology Questions and Answers PDF* Arshad Iqbal, The O Level Biology Quiz Questions and Answers PDF IGCSE GCSE Biology Competitive Exam Questions Chapter 1 20 Practice Tests Class 9 10 Biology Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions O Level Biology Questions and Answers PDF book covers basic concepts analytical and practical assessment tests O Level Biology Quiz PDF book helps to practice test questions from exam prep notes The O Level Biology Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests O Level Biology Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Biotechnology co ordination and response animal receptor organs hormones and endocrine glands nervous system in mammals drugs ecology effects of human activity on ecosystem excretion homeostasis microorganisms and applications in biotechnology nutrition in general nutrition in mammals nutrition in plants reproduction in plants respiration sexual reproduction in animals transport in mammals transport of materials in flowering plants enzymes and what is biology tests for school and college revision guide Biology Interview Questions and Answers PDF Download free eBook's sample covers beginner's solved questions textbook's study notes to practice online tests The IGCSE GCSE Biology Interview Questions Chapter 1 20 PDF book includes high school question papers to review practice tests for exams O Level Biology Practice Tests a textbook's revision guide with chapters tests for IGCSE NEET MCAT MDCAT SAT ACT competitive exam GCSE Biology Questions Bank Chapter 1 20 PDF book covers problem solving exam tests from biology textbook and practical eBook chapter wise as Chapter 1 Biotechnology Questions Chapter 2 Animal Receptor Organs Questions Chapter 3 Hormones and Endocrine Glands Questions Chapter 4 Nervous System in Mammals Questions Chapter 5 Drugs Questions Chapter 6 Ecology Questions Chapter 7 Effects of Human

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Biology I

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