

## 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  $\text{CO}_2$  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 Study Guide Answers Fred

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**Films and Other Materials for Projection** Library of Congress, 1968     Renewable Energy Resources John Twidell, Tony Weir, 2015-01-26 Renewable Energy Resources is a numerate and quantitative text covering the full range of renewable energy technologies and their implementation worldwide Energy supplies from renewables such as from biofuels solar heat photovoltaics wind hydro wave tidal geothermal and ocean thermal are essential components of every nation s energy strategy not least because of concerns for the local and global environment for energy security and for sustainability Thus in the years between the first and this third edition most renewable energy technologies have grown from fledgling impact to significant importance because they make good sense good policy and good business This Third Edition is extensively updated in light of these developments while maintaining the book s emphasis on fundamentals complemented by analysis of applications Renewable energy helps secure national resources mitigates pollution and climate change and provides cost effective services These benefits are analysed and illustrated with case studies and worked examples The book recognises the importance of cost effectiveness and efficiency of end use Each chapter begins with fundamental scientific theory and then considers applications environmental impact and socio economic aspects before concluding with Quick Questions for self revision and Set Problems The book includes Reviews of basic theory underlying renewable energy technologies such as electrical power fluid dynamics heat transfer and solid state physics Common symbols and cross referencing apply throughout essential data are tabulated in appendices An associated eResource provides supplementary material on particular topics plus a solutions guide to Set Problems Renewable Energy Resources supports multi disciplinary master degrees in science and engineering and specialist modules in first degrees Practising scientists and engineers who have not had a comprehensive training in renewable energy will find it a useful introductory text and a reference book

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