

## 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.



# Preap Photosynthesis Study Guide Answers

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