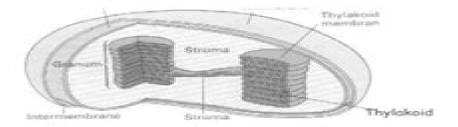
BIOLOGY / Chapter 6 Photosynthesis Study Guide

**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 CO₂ + 6 H₂O + (light) energy → C6H₁2O6 + 6 O₂
 - Carbon Dioxide + Water + Sunlight (energy) → Glucose + Oxygen
- Photosynthesis takes place in chloroplasts where plant pigments absorb light.
- Explain photosynthesis as a biochemical pathway.
- Understand light, temperature and CO2 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 hetertrophs

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



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D. O. Hall

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Photosynthesis and Production in a Changing Environment D.O. Hall, J.M.O. Scurlock, H.R. Bolhar-Nordenkampf, Richard C. Leegood, S.P. Long, 1992-12-31 This book which has derived from UNEP sponsored training courses in the subject contains vital up to date information presented by a leading team of international experts on all the major parameters of plant growth and the effect upon them of global climate change It will be an invaluable manual and reference source for students and researchers in plant science ecology and environmental science

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web the recluse spiders loxosceles $l \ p \ k \ ' \ s \ p \ s \ i \ l \ i$: z also known as brown spiders fiddle backs violin spiders and reapers is a genus of spiders that was first described by r t lowe in 1832 they are venomous spiders known for their bite which sometimes

produces a characteristic set of symptoms known as loxoscelism

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web a brown recluse has a dark brown violin shape on the cephalothorax the portion of the body to which the legs attach the neck of the violin points backward toward the abdomen however what you should look at instead is the eye pattern of 6 eyes in pairs with a space separating the pairs most spiders have 8 eyes in two rows of four

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