

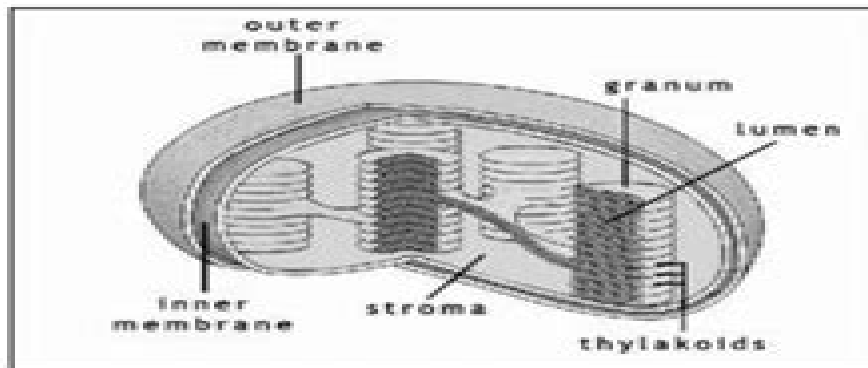
Photosynthesis Study Guide

ACT Course Standards are written in italics.

E-2b: Explain the functions of chloroplast.

1. Describe the function of the chloroplast. **Organelle in which photosynthesis takes place.** _____

2. Where is the chloroplast located? **plant cell** _____
3. Chloroplasts contain saclike photosynthetic membranes called **thylakoids** _____.
4. What is the grana? **Stacks of thylakoids**
5. The region outside the thylakoid membranes in the chloroplasts is called the **stroma**
6. Label the chloroplast below. Include: thylakoid, stroma, grana, lumen (inner thylakoid)



7. Where does the light dependent reaction take place? (Label on diagram above) **thylakoid** _____
8. Where does the light-independent reaction take place? (Label on diagram above) **stroma** _____

E-2c: Explain the interaction between pigments, absorption of light, and reflection of light.

1. What is the main pigment involved in photosynthesis? **chlorophyll** _____
2. List 2 accessory pigments in plants. **Carotenoids, anthocyanins** _____
3. Why do we see green in plants? **Chlorophyll absorbs all colors except for green, which is reflected.** _____

Biology Photosynthesis Guide Answer Key

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Westgate, James Colbert**



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