

**Chapter 8 Photosynthesis**

**Section Review 8-3**

**Reviewing Key Concepts**

**Completion** *On the lines provided, complete the following sentences.*

1. The light-dependent reactions take place within the \_\_\_\_\_ membranes.
2. The light-independent reactions are also known as the \_\_\_\_\_.
3. The energy carriers \_\_\_\_\_ and \_\_\_\_\_ are produced during the light-dependent reactions.
4. In the light-dependent reactions, the gas \_\_\_\_\_ is produced.
5. High-energy sugars are produced during the \_\_\_\_\_ reactions.
6. The light-independent reactions take place in the \_\_\_\_\_.

**Reviewing Key Skills**

7. **Comparing and Contrasting** How are photosystem I and photosystem II similar? How are they different?

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\_\_\_\_\_  
\_\_\_\_\_

8. **Predicting** If there is no light coming into the chloroplasts, how will this affect the Calvin cycle?

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\_\_\_\_\_  
\_\_\_\_\_

9. **Applying Concepts** What effect does weather have on the process of photosynthesis?

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\_\_\_\_\_  
\_\_\_\_\_

10. **Applying Concepts** If you place a plant in a clear, sealed box, how could you use a measurement of the gases in the boxed air to measure the rate of photosynthesis? What gas would you measure?

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