

Learning Target: I can explain how the process of photosynthesis allows organisms to capture and store energy.

### 3.5 Daily Video 1 – Photosynthesis

1. Organisms capture and \_\_\_\_\_
  - Photosynthesis is the biological process that captures energy \_\_\_\_\_
  - Evidence supports the claim that \_\_\_\_\_ by organisms, such as cyanobacteria, was responsible for the \_\_\_\_\_
  - Photosynthetic pathways are the foundation of \_\_\_\_\_
2. Light-dependent reactions of photosynthesis in eukaryotes involve a series of pathways.
  - Light-dependent reactions capture light energy by using \_\_\_\_\_
  - Pigments help transform \_\_\_\_\_
  - Chemical energy is temporarily stored in the \_\_\_\_\_
  - Light-dependent reactions help \_\_\_\_\_
  - ATP and NADPH transfer \_\_\_\_\_ to power the production of \_\_\_\_\_ in another pathway, called the \_\_\_\_\_
  - Oxygen is produced as a result of \_\_\_\_\_

**Skill Practice – Argumentation** – Type your correct answer and explain why you chose this answer.

Review questions:

1. How do organisms capture and store energy for use in biological processes?
2. How are the light-dependent reactions involved in the capturing and transforming of energy?
3. What are the products of the light-dependent reactions?
4. How are the light-dependent reactions and Calvin cycle reactions related?

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