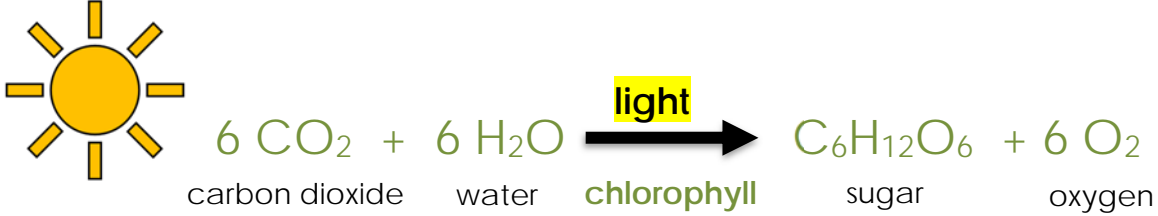


Name _____

Chloroplasts and Photosynthesis



Chloroplasts are green organelles found in plant cells and are responsible for a remarkable process called **photosynthesis**. Photosynthesis is the process by which plants convert sunlight, water, and carbon dioxide into glucose (sugar) and oxygen. This process is crucial because it provides plants with food and releases oxygen into the atmosphere.

Inside chloroplasts, there are structures called **chlorophyll**, which give plants their green color. Chlorophyll absorbs sunlight, capturing its energy to fuel the chemical reactions of photosynthesis.

Photosynthesis not only sustains plants but also provides oxygen for animals and helps maintain Earth's atmosphere.

Questions

1. What are chloroplasts, and what is their role in plant cells?
2. What is photosynthesis, and why is it important for plants?
3. Describe the role of chlorophyll in photosynthesis.
4. What are the products of photosynthesis?
5. True or False: Photosynthesis is a process that only occurs in plant cells at night.