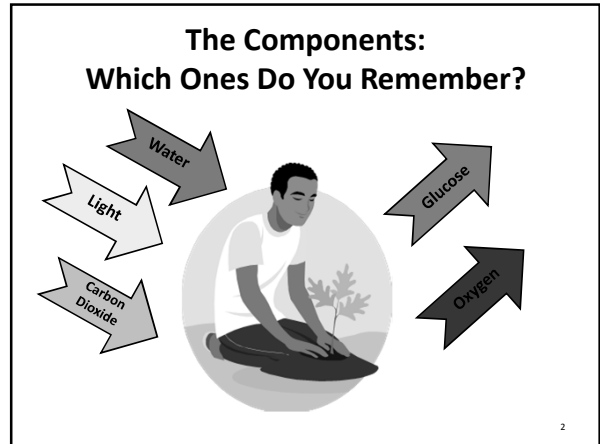


# Photosynthesis

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### The Components: Which Ones Do You Remember?

Water + Sunlight + Carbon Dioxide → Oxygen + Glucose

- Sunlight is solar energy
- Glucose is stored chemical energy
  - Type of sugar
  - We store glucose as fat

$$\begin{array}{c}
 \text{O} \\
 \parallel \\
 \text{H}-\text{C}-\text{H} \\
 | \\
 \text{H}-\text{C}-\text{OH} \\
 | \\
 \text{HO}-\text{C}-\text{H} \\
 | \\
 \text{H}-\text{C}-\text{OH} \\
 | \\
 \text{H}-\text{C}-\text{OH} \\
 | \\
 \text{CH}_2\text{OH} \\
 \text{3}
 \end{array}$$

4

### Today's Main Idea

Solar energy is transformed into chemical energy through **photosynthesis**.

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### Explore HW Question

**2. Explore today's main idea with this question:**  
Below is a chemical equation for photosynthesis.  
Label the components.

$$6\text{CO}_2 + 6\text{H}_2\text{O} + \text{energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$

### Vocabulary

None

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- ### Photosynthesis Lab
1. Measure the amount of carbon dioxide you exhale
  2. Determine how many leaves you would need to recycle your carbon dioxide
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