

Student Exploration: Cell Energy Cycle

Activity A: Photosynthesis

Get the Gizmo ready:

- If necessary, click **Reset**.
- Check that the **PHOTOSYNTHESIS** tab is selected. Check that **Description** is turned on.



Introduction: Photosynthesis occurs in the **chloroplast**, an organelle found in plant and algae cells. Within the chloroplast, a green pigment called **chlorophyll** converts the **radiant energy** of sunlight into **chemical energy** that the plant can use.

Question: What are the inputs and outputs of photosynthesis?

1. **Predict:** Of the molecules shown on the **MOLECULES** pane, which do you think are inputs (ingredients) in photosynthesis? Which do you think are outputs?

Inputs: **Carbon dioxide, hydrogen, and sunlight**

Outputs: **Oxygen and glucose**

2. **Explore:** Drag each molecule from the **MOLECULES** pane to the chloroplast on the **PHOTOSYNTHESIS** pane. If a molecule is an input, it will stay in the chloroplast.

Which molecules are inputs in photosynthesis? **Carbon dioxide and hydrogen**

3. **Observe:** Click **Add light** and look at the **Output**. What are the outputs of photosynthesis?

Oxygen and glucose

4. **Summarize:** Although photosynthesis is a complex process involving many reactions, it can be summarized by a simplified formula that shows inputs on the left and outputs on the right. Based on your observations, write a simplified formula for photosynthesis:



Turn on **Show input/output formula** to check. Were you correct? **Yes**

5. **Challenge:** To balance the inputs and outputs of photosynthesis, there should be the same number of carbon, oxygen, and hydrogen atoms on each side of the arrow.

A. Is the formula balanced as written? Why or why not? **No, because there is different amounts of carbon dioxide, hydrogen, and oxygen.**

B. Now balance the input/output formula by adding coefficients to each molecule. Write the balanced formula below, and then check your work by clicking **Balance**.



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CL Gary

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'CL Gary' text.

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