Student Exploration: Cell Energy Cycle

Activity A:

- 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?

 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

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

Photosynthesis

4. <u>Summarize</u>: 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:

CO₂ + H₂O → O₂ + C₄H₁₂O₄

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

- 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? <u>No. because there is different</u> 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.

6CO₂ + 6H₂O → 6O₂ + C₄H₁₂O₄

Cell Energy Cycle Gizmo Answer Key

S Ben Porath

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