

Student Exploration: Cell Energy Cycle

<p>Activity A: Photosynthesis</p>	<p>Get the Gizmo ready:</p> <ul style="list-style-type: none"> • If necessary, click Reset. • Check that the PHOTOSYNTHESIS tab is selected. Check that Description is turned on. 	
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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**.



Student Exploration Cell Energy Cycle Gizmo Answer Key

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Student Exploration Cell Energy Cycle Gizmo Answer Key:

Decoding **Student Exploration Cell Energy Cycle Gizmo Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Student Exploration Cell Energy Cycle Gizmo Answer Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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