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Student Exploration: Cell Energy Cycle

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: aerobic, anaerobic, ATP, cellular respiration, chemical energy, chlorophyll, chloroplast, cytoplasm, glucose, glycolysis, mitochondria, photosynthesis, radiant energy

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What does a plant need to survive and grow?
2. What does an animal need to survive and grow?
3. How do animals and plants depend on each other?

light, oxygen, photosynthesis, water

oxygen, food, water

They need each other's energy to live.

Gizmo Warm-up

The *Cell Energy Cycle* Gizmo™ illustrates two processes that are essential to life: **photosynthesis** and **cellular respiration**.

Although both of these processes involve a series of complex steps, the inputs and outputs of each process are four relatively simple molecules.

1. What is the chemical formula of oxygen?

O₂

2. **Glucose** is a simple sugar. What is the chemical formula of glucose?

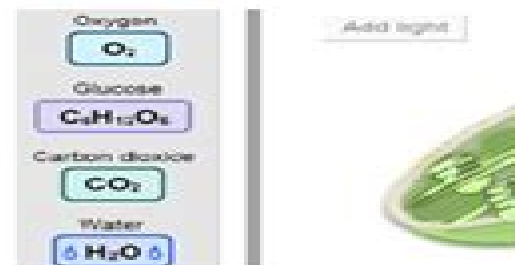
C₆ H₁₂ O₆

3. What is the chemical formula of carbon dioxide?

CO₂

4. What is the chemical formula of water?

H₂O



Teacher Guide Cell Energy Cycle

JR Anderson



Teacher Guide Cell Energy Cycle:

Reviewing **Teacher Guide Cell Energy Cycle**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Teacher Guide Cell Energy Cycle**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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