

Name: _____

Date: _____

Student Exploration: Cell Energy Cycle

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

Introduction

In 1977, scientists shocked the world with the announcement that they had discovered an entirely new ecosystem, thriving around hot springs in the deepest recesses of the ocean. This was stunning news because, until this discovery, it was thought that all life on Earth was dependent on the sun as its ultimate source of energy. What scientists found were bacteria that can synthesize sugars using energy from chemicals, like hydrogen sulfide, that are emitted from the hot springs.

The discovery was made in the Galapagos Rift, a deep trench in the eastern Pacific Ocean. The conditions that exist around these vents are similar to those that likely existed on Earth early in its development, billions of years ago. Therefore, some have suggested that these organisms may resemble some of the earliest forms of life to appear on Earth.

Glenn Warm-up

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

Although both of these reactions involve a series of complex steps, the basic reactants and products in each process are relatively simple molecules.



1. What is the chemical formula of oxygen? _____
2. Glucose is a simple sugar. What is the chemical formula of glucose? _____
3. What is the chemical formula of carbon dioxide? _____
4. What is the chemical formula of water? _____

Activity A:

Photosynthesis

Get the Glenn ready:

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



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

Question: What are the reactants and products of photosynthesis?

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

Reactants: _____ Products: _____

Answers To Cell Energy Cycle Gizmo

J Rink



Answers To Cell Energy Cycle Gizmo:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Answers To Cell Energy Cycle Gizmo**

In a global inundated with screens and the cacophony of immediate interaction, the profound energy and psychological resonance of verbal art often disappear in to obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, located within the lyrical pages of **Answers To Cell Energy Cycle Gizmo**, a interesting work of fictional brilliance that impulses with organic emotions, lies an memorable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this magical opus courses viewers on a mental odyssey, delicately revealing the latent possible and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is central themes, dissect its captivating writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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