

# Respiration Article & Follow-Up Questions

## CELLULAR RESPIRATION

All living things need energy to survive and carry out life processes. Whether an organism makes its own food through photosynthesis or eats another organism for food, all organisms\* use the same process to turn their food into usable energy. This process is called *cellular respiration*.



**Mitochondrion**

Cellular respiration is a chemical reaction that happens in an organelle called the *mitochondrion* (plural: mitochondria). Mitochondria are found in the cells of nearly every organism on Earth. While almost all cells in the human body contain mitochondria, cells that require a lot of energy, such as muscle cells, can contain hundreds or thousands of them.

All organisms need a source of food, in the cellular respiration. Plants are performing photosynthesis to make glucose. Cells use glucose and oxygen to produce energy (ATP) and carbon dioxide. The process is called cellular respiration.

Cellular respiration occurs in three main stages: glycolysis, the Krebs cycle, and the electron transport chain. Glycolysis occurs in the cytoplasm, while the other two stages occur in the mitochondria. During glycolysis, glucose is broken down into pyruvate. Pyruvate then enters the mitochondria and is converted into acetyl-CoA, which enters the Krebs cycle. The Krebs cycle produces carbon dioxide and energy in the form of ATP. The electron transport chain uses the energy from ATP to produce more ATP. At the end of the process, the cell has harvested energy from glucose. Carbon dioxide and water (H<sub>2</sub>O) are produced as waste products from this reaction. In general, animals breathe out the waste products carbon dioxide and water (as water vapor) when they exhale. Plants use the carbon dioxide and water to perform photosynthesis to make more glucose for an energy source. Excess water may leave the plant stomata in a process called transpiration.



\*There are some exceptions to this. Some organisms in extreme environments use a different process to produce energy.



Name \_\_\_\_\_

Read the article and then answer the questions below.

Use the dictionary to define the following terms:

Photosynthesis to make their own food

also to perform

cellular

mitochondria

also

it more

cellular

mitochondria

also

it more

After a chemical reaction, new materials are created. Write the chemical formula for each of the products. The first one has been completed as an example.

O<sub>2</sub>

Glucose

Carbon Dioxide

The formulas above represent atoms of an element. H = hydrogen, O = oxygen. What do you notice about the elements that are in the reactants of the equation? Are there any new elements that are present in the products?

Diagram using the following terms: glucose, oxygen, water, glucose, energy.



(ATP)

# Holt Biology Directed Reading Section Cellular Respiration Answer Key

**RC Schank**



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## Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Holt Biology Directed Reading Section Cellular Respiration Answer Key**

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### **Table of Contents Holt Biology Directed Reading Section Cellular Respiration Answer Key**

1. Understanding the eBook Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - The Rise of Digital Reading Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - User-Friendly Interface

## **Holt Biology Directed Reading Section Cellular Respiration Answer Key**

4. Exploring eBook Recommendations from Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Personalized Recommendations
  - Holt Biology Directed Reading Section Cellular Respiration Answer Key User Reviews and Ratings
  - Holt Biology Directed Reading Section Cellular Respiration Answer Key and Bestseller Lists
5. Accessing Holt Biology Directed Reading Section Cellular Respiration Answer Key Free and Paid eBooks
  - Holt Biology Directed Reading Section Cellular Respiration Answer Key Public Domain eBooks
  - Holt Biology Directed Reading Section Cellular Respiration Answer Key eBook Subscription Services
  - Holt Biology Directed Reading Section Cellular Respiration Answer Key Budget-Friendly Options
6. Navigating Holt Biology Directed Reading Section Cellular Respiration Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Holt Biology Directed Reading Section Cellular Respiration Answer Key Compatibility with Devices
  - Holt Biology Directed Reading Section Cellular Respiration Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Highlighting and Note-Taking Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Interactive Elements Holt Biology Directed Reading Section Cellular Respiration Answer Key
8. Staying Engaged with Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Biology Directed Reading Section Cellular Respiration Answer Key
9. Balancing eBooks and Physical Books Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Biology Directed Reading Section Cellular Respiration Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Setting Reading Goals Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Carving Out Dedicated Reading Time

## **Holt Biology Directed Reading Section Cellular Respiration Answer Key**

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12. Sourcing Reliable Information of Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Fact-Checking eBook Content of Holt Biology Directed Reading Section Cellular Respiration Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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