

HESI A2 Biology Study Guide 2024

Cellular respiration is the process inside of cells that converts nutrients (such as sugars, amino acids, and fatty acids) into ATP (adenosine triphosphate), which is used throughout the organism for energy. Large molecules are broken into smaller molecules, which releases both energy and waste.

Aerobic respiration occurs in the presence of Oxygen and has four main stages:

- Glycolysis: Larger sugar molecule is broken down into 2 smaller sugar molecules in the cytoplasm. Net gain of 2 ATP and 2 NADH
- Formation of Acetyl CoA: Pyruvate undergoes oxidative decarboxylation to form Acetyl coenzyme A. 1 CO₂ is released as waste. Net gain of 2 NADH.
- Citric acid cycle: also known as Krebs cycle. The 2 small sugar molecules produced during glycolysis are oxidized forming new products. Gain of 2 ATP, 6 NADH, 2 FADH₂.
- Electron transport chain: redox reaction involving the electrons removed during glycolysis and the Krebs cycle. Protons are pumped across the mitochondrial membrane to form a gradient, which drives the synthesis of 34 ATP.

Anaerobic respiration is a type of cellular respiration which occurs when oxygen is not present. This process is most commonly performed by bacteria and Archaea. These organisms use this process to obtain energy because they live in environments with low oxygen levels. Example: Archaea called methanogens use carbon dioxide to accept electrons. Methanogens can be found in soil and the digestive systems of animals called ruminants, which includes cows and sheep.

Anaerobic respiration, similar to aerobic cellular respiration, uses electrons from the fuel molecules to pass through the electron transport chain, which drives ATP synthesis. The electron transport chain moves electrons to create a proton gradient that allows for the synthesis of ATP. Electron transport chains are used for extracting energy. This can happen in plants, where the energy from the sunlight is used to create glucose and oxygen through photosynthesis in the chloroplast. Eukaryotes perform this process in the mitochondria.

Fermentation is another type of cellular respiration which occurs in the absence of Oxygen. Organisms capable of fermentation include prokaryotes, yeast, and multicellular organisms such as humans.

Feature	Aerobic Respiration	Anaerobic Respiration
Oxygen requirement	Yes, always	No, never
Waste products	Carbon dioxide and water	Carbon dioxide and ethanol
Efficiency in releasing energy from glucose	Very efficient (most of the energy is released from glucose)	Less efficient (some energy locked in ethanol is not released)
Some energy released as heat	Yes	Yes, but less than that for aerobic respiration

Antibiotics

Biology 47 Guide

JG Myers



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Table of Contents Biology 47 Guide

1. Understanding the eBook Biology 47 Guide
 - The Rise of Digital Reading Biology 47 Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology 47 Guide
 - 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 Biology 47 Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology 47 Guide
 - Personalized Recommendations
 - Biology 47 Guide User Reviews and Ratings
 - Biology 47 Guide and Bestseller Lists

5. Accessing Biology 47 Guide Free and Paid eBooks
 - Biology 47 Guide Public Domain eBooks
 - Biology 47 Guide eBook Subscription Services
 - Biology 47 Guide Budget-Friendly Options
6. Navigating Biology 47 Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology 47 Guide Compatibility with Devices
 - Biology 47 Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology 47 Guide
 - Highlighting and Note-Taking Biology 47 Guide
 - Interactive Elements Biology 47 Guide
8. Staying Engaged with Biology 47 Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology 47 Guide
9. Balancing eBooks and Physical Books Biology 47 Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology 47 Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology 47 Guide
 - Setting Reading Goals Biology 47 Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology 47 Guide
 - Fact-Checking eBook Content of Biology 47 Guide
 - 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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