

Chapter 9: Cellular Respiration and Fermentation

State Standards:

- 2-4 Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration. Explain the interrelated nature of photosynthesis and cellular respiration in the cells of photosynthetic organisms.

Key Terms

Calorie / calorie
Cellular Respiration
Aerobic
Anaerobic
Glycolysis
Glucose
NAD⁺ / NADH

Krebs's Cycle
Mitochondrial Matrix
Fermentation
Controlled Release
Mitochondria
Cytosol
Electron Carrier

Electron Transport
Pyruvic Acid
ATP / ADP
Synthesize
Citric Acid
ATP Synthase
FADH₂

You should be able to:

1. Explain where organisms get the energy they need for life processes.
2. Define cellular respiration.
3. Compare photosynthesis and cellular respiration.
4. Describe what happens during glycolysis.
5. Describe what happens during the Krebs Cycle.
6. Explain how high-energy electrons are used by the electron transport chain.
7. Identify how much ATP cellular respiration generates in each step of the process.
8. Explain how organisms get energy in the absence of oxygen.
9. Identify the pathways the body uses to release energy during exercise.

You should know the difference between:

- Photosynthesis, Cellular Respiration, and Fermentation
- ADP and ATP
- NAD⁺ and NADH
- Glycolysis, Krebs Cycle, and Electron Transport Chain
- Be able to distinguish between all of the parts of a mitochondria (matrix, inner membrane, outer membrane, and intermembrane space) and describe what occurs at each location.
- Glucose, pyruvic acid, and citric acid
- Aerobic and anaerobic respiration
- Lactic Acid Fermentation and Alcoholic Fermentation
- Sources for quick energy and long-term energy

Chapter 9 Cell Respiration Study Guide

Yicheng Fang



Chapter 9 Cell Respiration Study Guide:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Chapter 9 Cell Respiration Study Guide**

In a world inundated with screens and the cacophony of immediate conversation, the profound energy and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the constant barrage of sound and distractions. However, located within the lyrical pages of **Chapter 9 Cell Respiration Study Guide**, a charming perform of fictional elegance that impulses with natural emotions, lies an remarkable trip waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus books viewers on a mental odyssey, delicately exposing the latent possible and profound influence embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is central subjects, dissect its charming publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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