

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
Anaerobic
Aerobic
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
- Anaerobic and aerobic respiration
- Lactic Acid Fermentation and Alcoholic Fermentation
- Sources for quick energy and long-term energy

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