**Chapter 9**

**Cellular Respiration and Fermentation**

Chemical Energy Cellular Respiration Fermentation

Autotrophy Heterotrophy Calories

Kilocalories Carbohydrate Fat

Mitochondria Aerobic Anaerobic

Pyruvate Lactic Acid Ethyl Alcohol

High energy electron carriers (NAD+,FAD+)

Glycolysis

Krebs cycle (Citric acid cycle)

Electron Transport Chain

Fermentation

**Goals**

1. Understand an overview of the process of cellular respiration.
2. Understand the processes of lactic acid and alcoholic fermentation.
3. Understand the role of aerobic and anaerobic respiration in energy provision.