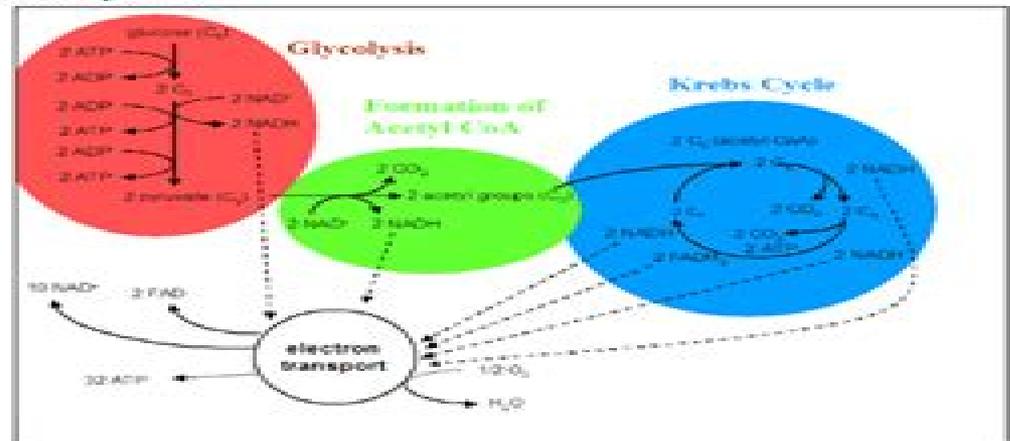
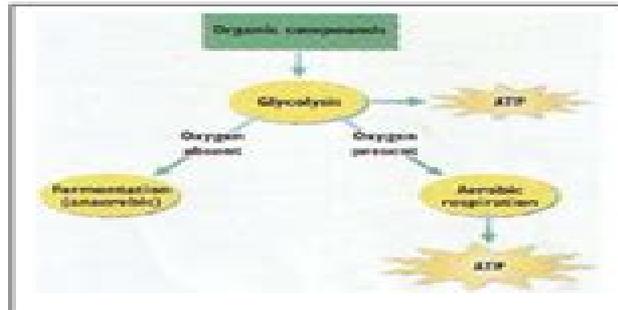


# AP BIOLOGY – CHAPTER 7 Cellular Respiration Outline

## I. How cells get energy:

### A. Cellular Respiration

1. **Cellular respiration** includes the various metabolic pathways that break down carbohydrates and other metabolites and build up ATP.



2. Cellular respiration requires oxygen and gives off CO<sub>2</sub>.
3. Aerobic respiration usually breaks down glucose into CO<sub>2</sub> and H<sub>2</sub>O.
4. Overall equation for complete breakdown of glucose requires oxygen (is aerobic):  

$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy}$$
5. Glucose is high-energy molecule; CO<sub>2</sub> and H<sub>2</sub>O are low-energy molecules; process is exergonic and releases energy.
6. Electrons are removed from substrates and received by oxygen, combines with H<sup>+</sup> to become water.
7. Glucose is oxidized and O<sub>2</sub> is reduced.
8. Buildup of ATP is an endergonic reaction that requires energy.
9. Pathways of aerobic respiration allow energy in glucose to be released slowly; ATP is produced gradually.
10. Rapid breakdown of glucose would lose most energy as non-usable heat.
11. Breakdown of glucose yields synthesis of 36 or 38 ATP; this preserves 39% of energy available in glucose.

### B. NAD<sup>+</sup> and FAD

1. Each metabolic reaction in cellular respiration is catalyzed by its own enzyme.
2. As a metabolite is oxidized, NAD<sup>+</sup> accepts two electrons and a hydrogen ion (H<sup>+</sup>); results in NADH + H<sup>+</sup>.
3. Electrons received by NAD<sup>+</sup> and FAD are high-energy electrons and are usually carried to the electron transport system.
4. NAD<sup>+</sup> is a coenzyme of oxidation-reduction since it both accepts and gives up electrons.
5. Only a small amount of NAD<sup>+</sup> is needed in cells; each NAD<sup>+</sup> molecule is used over and over.
6. FAD coenzyme of oxidation-reduction can replace NAD<sup>+</sup>; FAD accepts two electrons, becomes FADH<sub>2</sub>.

This is only a general outline. There is much that has been discussed and presented in lecture that is not included in this outline. All material discussed in lecture is test-material whether or not it is included in this outline.

# Ap Bio Cellular Respiration Study Guide

**Katrin Zwirgmaier**



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