

Photosynthesis & Cellular Respiration Study Guide

1. What is ATP and describe the cycle between ATP and ADP.

ATP (adenosine triphosphate) is an energy storing molecule. When a phosphate breaks off (2nd & 3rd bond) from ATP, it releases energy forming ADP (adenosine diphosphate). When a phosphate bonds to ADP, it stores energy and form ATP in a cycle.

2. Define aerobic and anaerobic cellular respiration.

Aerobic uses oxygen after the breakdown of glucose in glycolysis to form ATP molecules.

Anaerobic forms ATP molecules without the presence of oxygen after glycolysis.

3. Describe the functions of both energy making organelles:

- Chloroplasts – site of photosynthesis, contained in leaves because of large surface area, chlorophyll is most abundant of all pigments (reflects green)
- Mitochondria – site of cellular respiration, contain their own DNA, release the energy in glucose

4. Describe the reactants and products for both energy making processes by examining the equations:

- Photosynthesis – converts solar energy into chemical energy
- Cellular Respiration - converts chemical energy in foods to a useable form (ATP) for cellular functions

5. Describe the relationship between photosynthesis and cellular respiration.

The products of photosynthesis are the reactants of cellular respiration. The products of cellular respiration are the reactants of photosynthesis.

6. Describe the three stages of aerobic cellular respiration:

- Glycolysis
 - Aerobic or Anaerobic: **Anaerobic**
 - # of ATP: **2 ATPs used in the breakdown of glucose producing total of 4 ATPs = 2 net ATPs**
 - Where it occurs: **cytoplasm**
 - byproducts: **2 pyruvate molecules**
- Citric Acid (Krebs) Cycle
 - Aerobic or Anaerobic: **Aerobic**
 - # of ATP: **2**
 - Where it occurs: **mitochondria**
 - byproducts: **CO₂**
- Electron Transport Chain
 - Aerobic or Anaerobic: **Aerobic**
 - # of ATP: **32**
 - Where it occurs: **mitochondria**
 - byproducts: **H₂O**
- Total number of ATPs in aerobic cellular respiration = **38** Total usable ATPs = **36**

7. Describe the process of both types of fermentation:

- Lactic acid:
 - Aerobic or Anaerobic: **Anaerobic**
 - # of ATP: **2**
 - Where it occurs: **cytoplasm**
 - byproducts: **Lactic acid**
- Alcoholic:
 - Aerobic or Anaerobic: **Anaerobic**
 - # of ATP: **2**
 - Where it occurs: **cytoplasm**
 - byproducts: **Alcohol & CO₂**

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