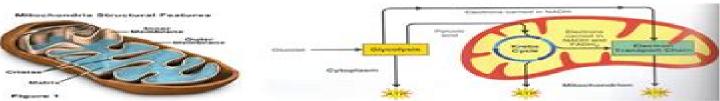
#### CHAPTER 9: CELLULAR RESPIRATION STUDY GUIDE

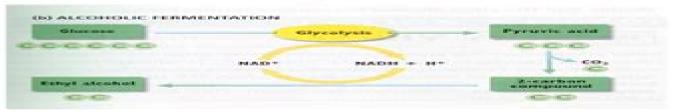
 Draw and label the parts in a mitochondrion and show where the different reactions happen.



2. Write the chemical formula for cellular respiration in symbols and words.

C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>+6O<sub>2</sub> → 6CO<sub>2</sub>+6H<sub>2</sub>O+Energy (ATP) Glucose (food) + oxygen = carbon dioxide + water + energy

- How does this equation compare to the equation for photosynthesis?
   It is the opposite/reverse. The products and reactants are flipped.
- 3. Describe the steps of Glycolysis.
- 6 carbon glucose molecule is broken in half forming 2 3 carbon molecules known as pyruvic acid. This requires 2 ATP molecules of energy.
- In order to form pyruvic acid, 2 NADH are formed by accepting electrons, and 4 ATP molecules are formed in that process.
- 4. List the products of Glycolysis.
  - 2 ATP net total
  - 2 NADH
  - 2 Pyruvic acid molecules
- 5. Describe the steps of Alcoholic fermentation.
- Glycolysis must occur first, producing 2ATP and 2 NADH.
- If no oxygen is present, it then goes into alcoholic fermentation.
- Pyruvic acid losses a Carbon to form carbon dioxide.
- NADH donates its electrons now creating a 2Carbon molecule known as ethyl alcohol.



# **Study Guide Life Is Cellular Answers**

Lori K. Garrett, Tobin, Jennie Dusheck

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