

## CHAPTER 9: CELLULAR RESPIRATION STUDY GUIDE

1. 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.



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.

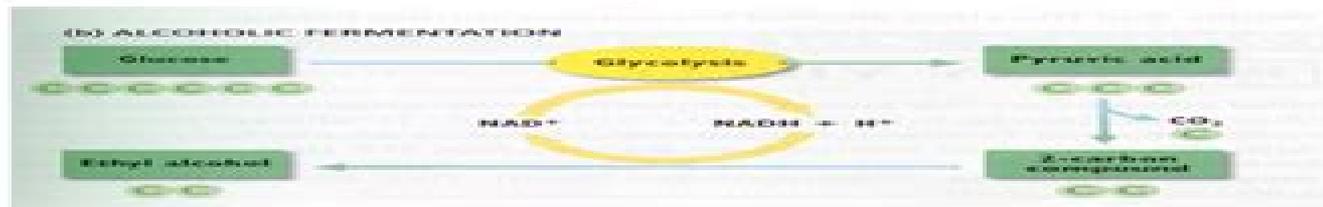
2 ATP net total

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 loses a Carbon to form carbon dioxide.
- NADH donates its electrons now creating a 2Carbon molecule known as ethyl alcohol.



# Chapter Cellular Respiration Study Guide

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