

## 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.



- 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.

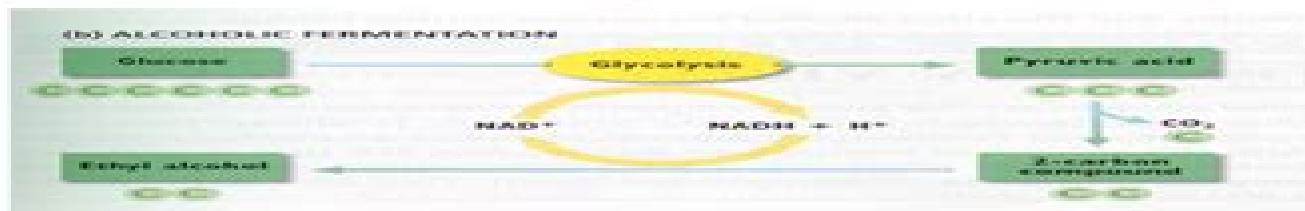
### 2 ATP net total

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.



# Study Guide Life Is Cellular Answers

**Sylvia S. Mader**

## **Study Guide Life Is Cellular Answers:**

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Deborah M. Brosnan,Donald J. Reinhardt,1989 **Study Guide to Accompany Biology: A Journey into Life** Russell V.

Skavaril,1991 **Study Guide and Solutions Manual** Bruce A. Chase,Peter J. Russell,2005-06 This student resource

contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities Anatomy & Physiology Made Simple Doug Sowle,2025-09-03

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