Mama	Class	Date	
Name		 -	

Chapter 9 Cellular Respiration

Section 9-1 Chemical Pathways (pages 221-225)

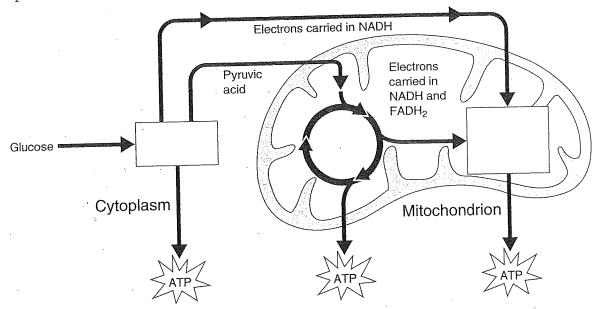
- **C** Key Concepts
 - What is cellular respiration?
 - What happens during the process of glycolysis?
 - What are the two main types of férmentation?

Chemical Energy and Food (page 221)

- 1. What is a calorie?
- 2. How many calories make up 1 Calorie?
- 3. Cellular respiration begins with a pathway called ______.
- 4. Is the following sentence true or false? Glycolysis releases a great amount of energy.

Overview of Cellular Respiration (page 222)

- 5. What is cellular respiration?
- 6. What is the equation for cellular respiration, using chemical formulas?
- 7. Label the three main stages of cellular respiration on the illustration of the complete process.



	Class	Date
8. What would be the probler	n if cellular respiration tool	
Where does glycolysis take —————————————————————————————————	place?	<u> </u>
10. Where do the Krebs cycle ar		place?
Glycolysis (page 223) 11. What is glycolysis?		
12. How does the cell get glycol	ysis going?	
with a net gain of 2 ATP mol	ecules?	
with a net gain of 2 ATP mol	ecules?	
	ecules?	
with a net gain of 2 ATP mol- 4. What is NAD+?	ecules?	
with a net gain of 2 ATP mol- 4. What is NAD+? 5. What is the function of NAD	t in glycolysis?	
with a net gain of 2 ATP mol- 4. What is NAD+?	t in glycolysis?	

Nam	e	_ Class	Date				
Fer :	mentation (pages 224–225) What is fermentation?						
19.	How does fermentation allow glyco	olysis to contin	ue?				
20.	Because fermentation does not requ	uire oxygen, it	is said to be ————.				
21.	What are the two main types of fermentation?						
	a						
	b. ————						
22.	What organisms use alcoholic fermentation?						
23.	What is the equation for alcoholic	fermentation a	ter glycolysis?				
24.	What happens to the small amount of alcohol produced in alcoholic fermentation during the baking of bread?						
25.	What does lactic acid fermentation convert into lactic acid?						
26.	What is the equation for lactic acid fermentation after glycolysis?						
27.	During rapid exercise, how do yo	ur muscle cells	produce ATP?				

Reading Skill Practice

When you read about complex topics, writing an outline can help you organize and understand the material. Outline Section 9–1 by using the headings and subheadings as topics and subtopics and then writing the most important details under each topic. Do your work on a separate sheet of paper.