

Name	Date Class
	• Fransparency Wo
BASIC CO	NCEPTS CELLULAR RESPIRATION
	USE WITH CHAPTER 10, SECTION 10.3
1. What is the s	source of energy for the first step of glycolysis?
	2 AIP
2. In glycolysis,	, what substance is broken down? What substance is the end product?
	glucose 2 primate
3. In glycolysis.	, what is the ratio of glucose molecules to the net number of ATP molecules found at the
	plain your response.
	net Iglucosc aATP
	makes Ighnose: 4ATP
4 Which of the	
	te processes shown in the transparency is anaerobic? Which of the processes is aerobic?
voors: 9	te processes shown in the transparency is anaerobic? Which of the processes is aerobic?
\aov 0: 9	the processes shown in the transparency is anaerobic? Which of the processes is aerobic? AVOIGES EIC
\aov 0: 9	te processes shown in the transparency is anaerobic? Which of the processes is aerobic?
5. Where does	the processes shown in the transparency is anaerobic? Which of the processes is aerobic? ANOBALES EIC the breakdown of pyruvic acid occur? MINOCONAVIA
5. Where does 6. What is the	the breakdown of pyruvic acid occur? end product of the breakdown of pyruvic acid?
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CHAPTER REVIEW			CHAPTER	6	_
Understand the Concepts	•		,	\subseteq	
Answer the following questions in one or two sentences 1. What is the role of oxygen in aerobic respiration?	s. H+	0 >	20	<u> </u>	
What happens to the energy released during cellu ATTY CATTY Cycle.	lar respiration?	Fun S OB	()		
What is the role of enzymes in cellular respiration?		pic respiration	ATP	\$	•
Explain the importance of phosphorylation in bioche	2 4 Ll,				
xplain the function of FAD and NAD† in aerobic resp	iration ETC				
What role does the Krebs cycle play in cellular respiration () () () () () () () () () (H				
ompare the efficiencies of aerobic and anaerobic res	piration. PSS ef	ficion	+		
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Name	Date Class	
- Control of the cont	Reinforcement and Study Guide	
CHAPTER (I) ENERGY IN A CELL		20
Section 10.1 ATP: Energy in a Molecule		
In your textbook, read about cell energy.		
Use each of the terms below just once to complete the	e passage.	
nutrient store reactions releasing demand supply food bloodstream	adenosine triphosphate (ATP) energy	
In order to do biological work, the cells of organisms	need a steady supply of	
(1) All the energy needed for life proc	cesses is obtained from	,
(2) By the time ingested food reaches	your (3), it has been	
broken down into (4) molecules that ca		
(5) then break down the food molecules		
available energy cannot be used immediately. To balance e		
(8), cells (9) energy		
(10) These molecul		
In your textbook, read about forming and breaking down AT		·
Examine the diagram below. Then answer the question		
ATP	NANA	
Energy from food ADP + Pi	Energy Energy Energy	• .
	r e	
11. Structurally, how are ADP and ATP similar? How at	re they différent?	
12. How does a cell release energy?		
	<u> </u>	
4	BIOLOGY: The Dynamics of Life CHAPTER 10 37	