me:			Date:	Period:
II Bi	ology-Standards Base	ed Worksheet – Chapters	s 8 and 9. Pages 20	0-239.
swe	r the following standa	ards-based questions in t	he space provided.	You may attach additional paper if
cess	ary.			
1.	What is the differen 201)	ce between an autotrop	h and a heterotroph	n? Give one example of each. (Page
2.	What is ATP? Draw	the molecule and label i	ts three parts.(Page	202-203)
3.	Compare at least tw	o differences between A	TP and ADP. (Page 2	
		ATP	+	ADP
4.	Write the chemical equation. (Pg. 206)	equation for photosynth	esis. Underneath th	ne chemical equation write the word
	Chemical Equation			
	Word Equation			
5.	What is the light abs		the chloroplast call	ed? What two colors does it absorb
The	e light absorbing pign	nent is		·
It c	bsorbs the colors		_ and	best.
-	Predict how oxygen party do you expect this		uld change if you pl	aced it in permanent red or blue light.

	reaction that occurs in each. (Pg. 209)										
7.	Include the location of the reaction, compounds present at the beginning, and compounds produced at										
ſ	the end. (Pgs. 210-213)										
	Name of PSN Phase	Location?	Starts with?	Ends with?							
8.	What is a calorie? (Pag	ge 221)									
9.	Write the chemical fo	Write the chemical formula of respiration. Underneath the chemical formula, write the word equation									
	for respiration. (Page 222)										
	Chemical Equation	,									
,	Word Equation										
10	What is lactic acid fermentation? Where and why does it occur? (Pg. 223-225)										
	What is lactic Acid Fermentation?										
	Where does it occur?										
	Why does it occur?										
11.			Indicate the name of the res	piration stage, where it							
ŗ	occurs, its reactants, a	6-229)	,								
	Respiration Stage										
	Where?										
	Reactants (starting material)?										
	Products (end results)	?									
Ĺ		1	l	l							

6. Draw the chloroplast and label the thylakoid and stroma. Include the name of the photosynthesis

12. How does a runner receive quick energy and long-term energy? (Page 230-231)									
4.0					L (II) (2 222)				
13	. Compare pl	Photosynthesis to cellular respiration Photosynthesis	tion by comple	eting the following chart. (Pg. 232) Respiration					
		Priotosynthesis			Nespiration				
	Function								
	Location								
	Reactants								
	Redutants								
	Products								
	Charainal								
	Chemical Equation								
	·								
14	. Complete th	ne following Standardized Test P	rep Questions:	#1-1	0 on Page 219 and #1-10 on Page 239.				
	P. 219	_			Reason or Page Number				
	Answer		Answer						
	1.		1.						
	2.		2.						
	3.		3.						
	3		3.						
	4.		4.						
	5.		5.						
	6.		6.						
	7.		7.						
	8.		8.						
	9.		9.						
	10.		10.						
	10.		10.						