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Name	Date	Period
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## Chapter 4 Concept Review

**Directions**: Answer the following questions using your notes and textbook

The chemical energy used for most cell processes is carried by	
2. All carbon-based molecules in food store chemical energy in their	
3. Energy of ATP released when group is removed.	
4. When loses phosphate group, ATP becomes (adenosine diphosphate)	١.
5. Number of ATP molecules depends on type of molecule broken down (Carbohydrate, Prote	ein,
lipid).	
6 most commonly broken down to make ATP.	
7. Break down of yields 36 molecules of ATP.	
8. Amino acids needed to build new	
9. Some organisms use to produce energy (sugars).	
10 make their own source of chemical energy.	
11. photosynthesis is process that captures energy from to make sugar	´S
that store chemical energy.	
12. Plants appear green because green light (not absorbed)	
13. Photosynthesis in plants occurs in	
14 stacks of coin-shaped, membrane-enclosed compartments called	
<del>.</del>	
15 is the fluid that surrounds grana.	
16. Light-dependent reactions (capture energy from). Occurs within and	
across membrane of	

17. Light	reactions (uses energy produced from light-dependent
reactions). Occur in the stroi	ma of chloroplasts.
18. Plants produce	for themselves and other
19. Animals use	produced by photosynthesis in cellular respiration
(released stored	)
20. Cellular respiration make	es ATP by breaking down and other carbon-
based molecules to make _	
21p	rocess (does not require oxygen).
22. Chemical equation for ce	ellular respiration is basically the of that for
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23 produced (3-	4 to 36 molecules) for a total of 36 to 38 including
24. Fermentation allows	to continue.
25	is an anaerobic process.
26. Lactic Acid fermentation	occurs in cells.
27. Glycolysis splits glucose	into two molecules.
28	fermentation- similar to lactic acid fermentation. Products of
alcoholic fermentation includ	le cheese, bread, yogurt.
29	_ splits glucose and products enter fermentation.
30	fermentation- Glycolysis splits glucose and products enter
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