	1/ -	Unit 4 Test Review		
Name	:Answer Key	Date: H	r: Test #:	
1.	Fill in the table.			
		MONOCOTS	DICOTS	
	Seed Leaf	One	TWO	
	Vascular Bundles	Scattered	Arranged in a ring	
	Venation	Parallel	Net-like	
	Flower Parts	Multiples of 3	4 to 5 petals	
2.	What is the female plant reproductive structure called? And what are its parts?			
	Stigma, Style, ovary			
3.	What is the male plant reproductive structure called? And what are its parts? Stamen:			
	Anther, Filament			
4.	What are heterotrophs? Organisms that consume other			
	organisms for energy			
5.	What are autotrophs? <u>bro</u>	Janisms that make	their own fond	
6.	What is the role of chloroph	yll in photosynthesis? Absorb	light energy	
7.	What is the equation for photosynthesis?			
	6 CO2 + 6 H2O + light energy -7 C10 H12 D10 + 6 O2			
8.	What are the two stages in photosynthesis and where does each take place? Light - Dependent - Thylakoid, Calvin Cycle- Stroma			
9.	What are the inputs in the li	ght-dependent reactions? 119n+	and water (H2O)	
10	O. What is produced by the lig	ht-dependent reactions? <u>OXYge</u>	n	
	22 P 1000 M	e light reactions that provide energy for	or the Calvin Cycle? ATP and NADP	
		of thylakoids		
		outside of thet		
		Region butside of	The second of th	
		tosynthesis? <u>Pigments in</u>	hotosystem II absorb ligh	
	6. What are the inputs in the C			
1	7. What is produced by the Ca	Ilvin Cycle? C6 H12D6 gluco	se	

19. What are the reactants for cellular respiration? Oxygen (02) and glucose CuH120(
20. What are the products for cellular respiration? water (H2O), carbon dioxide (CO2),

18. What is the chemical equation for cellular respiration?

21. What are the three steps of cellular respiration and in what order do they occur?			
Glycolysis - 7 Krebs Cycle -> Electron Transport			
22. What happens in glycolysis? Net gain of 2 ATP, 2 molecules of pyruvio acid, a molecule of glucose is spiit 23. Where does glycolysis occur? Cytoplasm			
23. Where does glycolysis occur? Cytoplasm			
24. When is energy released from ATP? a phosphate group is removed			
25. What is the difference between ATP and ADP? ATP has 3 phosphate			
groups and ADP has 2 phosphate groups			
26. How many ATP are produced in glycolysis?			
27. What is the starting molecule for glycolysis?			
28. What is the starting molecule for the Krebs cycle? Pyruvic acid			
29. Where do the Krebs cycle and electron transport chain occur? Mitochondria			
30. In what process does a 2-carbon molecule combine with a 4-carbon molecule to form citric acid?			
the Krebs Cycle			
31. How many ATP are produced in cellular respiration using one molecule of glucose? <u>38</u>			
32. What are the two types of fermentation? Alcoholic, Lactic Acid			
33. Where does lactic acid occur? MUSCIE CELIS			
34. Which fermentation makes bread rise? Alcoholic Fermentation			
35. What is produced during extensive exercise in the human body in the absence of oxygen?			
Lactic acid fermentation			
36. What is the difference between aerobic and anaerobic? Aerobic - oxygen is			
present; angerobic-oxygen is NOT present			
Additional			
· The source of oxygen produced during			
photosynthesis is water.			