___ Block _____ Score __

~PHOTOSYNTHESIS/CELLULAR RESPIRATION HOMEWORK~

Section 1: Match the definitions on the right with the correct term on the left. Write the correct answer in the blank.

1. ATP	Process requiring oxygen (O2)	
2. Anaerobic	Principal pigment in plants	
3. Aerobic	 3rd phase of cellular respiration, produces 32 ATP, turns ADP into ATP 	
4. Autotroph	D. Organism that make their own food	
5. Heterotroph	E. Process that does not require oxygen (O2)	
6. Glycolysis	. Anaerobic process that happens after glycolysis has sed up all of the electron carriers.	
7. Krebs Cycle	G. An Organism that gets energy by consuming organisms.	
8. Electron Transport Chain (ETC)	H. 2nd phase of cellular respiration, produces 2 ATP, breaks pyruvic acid into carbon dioxide	
9. Fermentation	Molecule used by cells to store and release energy	
10. Chlorophyll	1st stage of cellular respiration, produces 2 ATP, eak glucose into pyruvic acid	

Section 2: Answer the questions and draw any necessary diagrams.

11. Write the formula for photosynthesis in words. Then, sketch a picture/diagram to illustrate the formula. (7pts)

12. 11. Write the formula for cellular respiration in words. Then, sketch a picture/diagram to illustrate the formula. (7pts)

13. Explain how a C4 plant functions differently than regular plants AND give an example. (3 pts)

14. How does CAM plants go through Photosynthesis compared to others and give an example. (3 pts)

Section 3: Complete the following chart. Use the hints for the number of products. (16 points).

Process name	Products	# of ATP produced at end of process	Location in cell (Organelle)
Aerobic Cellular Respiration (all of it)	(3)		
Alcoholic Fermentation (no glycolysis)	(2)		
Lactic Acid Fermentation (by itself)	(1)		
Photosynthesis	(2)		