Pł	eneral Biology Name notosynthesis Worksheet Date outh Sevier High School Per			
1.	What is the equation for photosynthesis?			
	6 + 12 + Energy + 6 + 6 + 6			
2.	What are the two colors of the rainbow that are used in photosynthesis?			
3.	3. Of the two colors used in photosynthesis, which is the shortest?			
4.	True False Visible light is just a small part of the entire electromagnetic spectrum.			
5.	The behavior of light is such that is acts like a and a wave at the same time.			
6.	A packet of light is called a			
7.	Some atoms become energized when they get hit by light, causing electrons in their outer shells to jump to a energy level.			
8.	A photon of or is given off when the excited electrons move back to their natural state.			
9.	What are the names of the three types of photosynthetic pigments?			
10	Explain why a green plant looks green to our eyes.			
11	.There are two kinds of reactions that take place in photosynthesis. The reaction takes place in the light, while the reaction can take place in the light or the dark.			
12	2. The light-dependent reaction makes and which powers the light-independent reaction which makes			
13	3. The entire process of photosynthesis takes place in the of plants.			
14	F. The coin-shaped structures inside a chloroplast are called, and the open space inside the chloroplast is called the			
15	15. Electrons in the chlorophyll pigments become excited as they get hit with photons of energy from the This causes a chain reaction of electrons that move to special molecules called electron			
16	6. Photosystem provides the energy needed to drive Photosystem			

17. When electrons move through the chain reaction of Photosystem I, H<sup>+</sup> (hydrogen ions from

18. When the charge builds up inside the thylakoid, this drives the formation of \_\_\_\_\_ from

water) are pumped from the \_\_\_\_\_ into the \_\_\_\_\_.

\_\_\_\_\_ and \_\_\_. This process is called \_\_\_\_\_.

		nergy, and they are passed on to Photosystem are then used to make, which phosphate.
	rons used during Photosystem II must from hydrogen replace the lost ele	be replaced is split and the ectrons.
	Photosystem II we get to power to power Photosystem I. Fill have not made any sugar.	the light-independent reactions and rom Photosystem I we get,
22. The suga	rs made in photosynthesis occur during	g the cycle.
6-Carbor		with the carbon from CO <sub>2</sub> to make an unstable immediately broken down into two 3-carbon
24. Energy fr	om ATP and NADPH reduce phosphog	lycerate to form a molecule called
25 P( rearrange	GAL are used to make, then the Ca	_, while the remaining 10 PGAL are livin cycle starts all over.
26. Fill in the	chart below with all the materials need	ed for photosynthesis to work.
	Light Reactions	Light-Independent Reactions
Inputs	Light Reactions	Light-Independent Reactions
Inputs Produced	Light Reactions	Light-Independent Reactions
Produced	Light Reactions  e the main byproducts of the three stag	
Produced  27. What are a. Ph		

## LIFE EXISTS ON PLANET EARTH AS WE KNOW IT BECAUSE OF PHOTOSYNTHESIS!