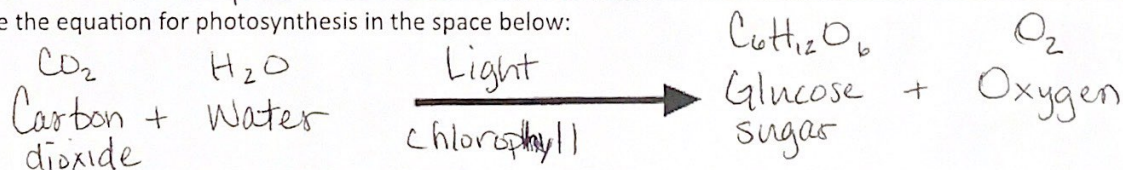


Photosynthesis Test Review

1. What process in the natural world converts radiant energy into chemical energy? Photosynthesis
2. Trees that grow in a forest tend to grow very tall with few branches. The same species of tree grown in an open area tends to grow shorter with many branches. The energy responsible for these different growth patterns is the amount of light energy reaching the leaves.
3. Plants appear green because they contain Chlorophyll
4. Photosynthesis in plants produces glucose/sugar and oxygen
5. During the process of photosynthesis radiant energy is converted to chemical energy.
6. What is an autotroph? An organism that can make its own food
give an example algae, ferns, moss, trees
What is another name for autotroph? producer
7. Chlorophyll is the green pigment in plants that captures energy from the sun and converts it into chemical energy.
8. What is glucose? sugar that is the "food" for producers
9. Name three organisms that capture the energy of sunlight through photosynthesis.
 - a. plants
 - b. some bacteria
 - c. some protists
10. What kind of energy is necessary to initiate the process of photosynthesis? light/solar/radiant
11. The process of photosynthesis cannot occur without light energy.
12. What is a pigment? a color
13. During photosynthesis, solar energy is absorbed and transformed into chemical energy
14. What are the reactants and products of photosynthesis?
 - a. reactants: Carbon dioxide and water
 - b. products: Glucose and Oxygen
15. Which organelle does photosynthesis occur in? Chloroplasts
16. What are stomata tiny openings on the underside of leaves
and what do they do? allows for gas exchange / oxygen to be released and CO₂ to enter
17. What are guard cells specialized cells that surround the stomata
and what do they do? open and close stomata
18. Write the equation for photosynthesis in the space below:



***Make sure to look over your Photosynthesis Vocabulary words.