

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

### PHOTOSYNTHESIS STARTS WITH

1. Molecules that collect light energy are called P \_\_\_\_\_ .
2. Chlorophyll a and b absorb B \_\_\_\_\_ - V \_\_\_\_\_ and R \_\_\_\_\_ wavelengths of light best.
3. C \_\_\_\_\_ is the main light absorbing pigment found in green plants.
4. Plants "look" green because chlorophyll R \_\_\_\_\_ green light.
5. Organisms, like green plants, that can make their own food using energy from the sun are called A \_\_\_\_\_ .
6. The gel-filled space inside the chloroplast surrounding the thylakoid stacks is called the S \_\_\_\_\_ .
7. P \_\_\_\_\_ I and II contain chlorophyll and absorb light energy during the L \_\_\_\_\_ D \_\_\_\_\_ reactions.
8. During the light dependent reactions, H<sup>+</sup> ions build up in the T \_\_\_\_\_ space when W \_\_\_\_\_ molecules are split.
9. The enzymes for the light dependent reactions are found in the T \_\_\_\_\_ M \_\_\_\_\_ , while the Calvin cycle happens in the S \_\_\_\_\_ .
10. The stacks of thylakoids found inside chloroplasts are called G \_\_\_\_\_ .
11. The light independent reactions are also called the C \_\_\_\_\_ C \_\_\_\_\_ .
12. Carbon and oxygen from C \_\_\_\_\_ D \_\_\_\_\_ end up as part of a G \_\_\_\_\_ molecule following the Calvin cycle.
13. A \_\_\_\_\_ and N \_\_\_\_\_ are made during the L \_\_\_\_\_ dependent reactions and carry energy and high energy electrons that are used during the Calvin cycle to produce S \_\_\_\_\_ , like glucose.
14. The O in H<sub>2</sub>O is given off as O \_\_\_\_\_ gas to the atmosphere when water is split during the light dependent reactions.
15. Proteins in living things that help chemical reactions happen are called E \_\_\_\_\_ .
16. Electrons are transferred along the membrane from Photosystem II to Photosystem I using the E \_\_\_\_\_ T \_\_\_\_\_ S \_\_\_\_\_ .