

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.
5. C _____ is the main light absorbing pigment found in green plants.
3. Plants "look" green because chlorophyll R _____ green light.
4. Organisms, like green plants, that can make their own food using energy from the sun are called A _____ .
5. The gel-filled space inside the chloroplast surrounding the thylakoid stacks is called the S _____ .
6. P _____ I and II contain chlorophyll and absorb light energy during the L _____ D _____ reactions.
7. During the light dependent reactions, H⁺ ions build up in the T _____ space when W _____ molecules are split.
8. The enzymes for the light dependent reactions are found in the T _____ M _____ , while the Calvin cycle happens in the S _____ .
9. The stacks of thylakoids found inside chloroplasts are called G _____ .
10. The light independent reactions are also called the C _____ C _____ .
11. Carbon and oxygen from C _____ D _____ end up as part of a G _____ molecule following the Calvin cycle.
12. 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.
13. The O in H₂O is given off as O _____ gas to the atmosphere when water is split during the light dependent reactions.
14. Proteins in living things that help chemical reactions happen are called E _____ .
15. Electrons are transferred along the membrane from Photosystem II to Photosystem I using the E _____ T _____ S _____ .