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 H_2O 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_ __ __ __ __ __ .