Directions: Match each term with its correct definition (Note: They are grouped into groups of 10 or less terms, look for the lines separating the groups)

\_\_\_\_1. Absorption spectrum A. the green pigment that captures the light energy that drives the

reactions of photosynthesis

\_\_\_\_2. Autotroph B. the organelle where photosynthesis takes place

\_\_\_\_3. Calvin Cycle C. the form of chlorophyll that absorbs blue and red-orange light

\_\_\_\_4. Carbon Fixation D. the range of all possible frequencies of radiation

\_\_\_\_5. Chlorophyll E. an organism capable of producing its own food

\_\_\_\_6. Chlorophyll a F. the process of converting inorganic CO2 gas into organic compounds

\_\_\_\_7. Chlorophyll b G. the specific pattern of absorption for a substance that absorbs

electromagnetic radiation

\_\_\_\_8. Chloroplast H. a stack of thylakoids located inside a chloroplast

\_\_\_\_9. Electromagnetic I. the form of chlorophyll that absorbs violet-blue and red light

Spectrum

\_\_\_\_10. Granum J. the reactions of photosynthesis that use the energy stored by the

light-dependent reactions to form glucose and other carbohydrate molecules

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\_\_\_\_11. Heterotroph A. a distinct quantity or “packet” of light energy

\_\_\_\_12. Light-dependent B. the middle layer of cells in a leaf

Reaction

\_\_\_\_13. Mesophyll C. the first stage of photosynthesis where visible light is absorbed to

form two energy-carrying molecules (ATP and NADPH)

\_\_\_\_14. Photoautotroph D. a group of proteins, chlorophyll, and other pigments that are used in

the light-dependent reactions of photosynthesis to absorb light energy and convert it into chemical energy

\_\_\_\_15. Photon E. the distance between consecutive points of a wave

\_\_\_\_16. Photosystem F. an organism that consumes other organisms for food

\_\_\_\_17. Pigment G. a molecule that is capable of absorbing light energy

\_\_\_\_18. Stoma H. the fluid-filled space surrounding the grana inside a chloroplast

where the Calvin cycle reactions of photosynthesis take place

\_\_\_\_19. Stroma I. the opening that regulates gas exchange and water regulation

between leaves and the environment; plural: stomata

\_\_\_\_20. Thylakoid J. an organism capable of synthesizing its own food molecules (storing

energy), using the energy of light

\_\_\_\_21. Wavelength K. a disc-shaped membranous structure inside a chloroplast where the

light-dependent reactions of photosynthesis take place using chlorophyll embedded in the membranes