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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Photosynthesis and The Calvin-Cycle

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|  |  |  | 1  S | T | O | M | A | T | A |  | 2  O | X | Y | G | E | N |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 3  P |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 4  T | H | Y | L | A | K | O | I | D |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | A |  |  |  |  |  |  | 5  P |  |  |
|  |  |  |  |  |  |  | 6  G | R | A | N | U | M |  |  |  |  | H |  |  |
|  | 7  A |  | 8  C |  |  | 9  C |  |  |  | T |  |  |  |  |  |  | O |  |  |
|  | U |  | H |  | 10  W | A | T | E | R |  |  |  |  |  |  |  | T |  |  |
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|  | O |  | O |  |  | B |  |  | 14  A | T | P |  | N |  | 15  C |  | S |  | L |
|  | T |  | R |  |  | O |  |  |  | R |  |  | Z |  | A |  | Y |  | U |
|  | R |  | O |  | 16  C | H | L | O | R | O | P | H | Y | L | L |  | N |  | C |
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|  | H |  | A |  | 17  G | R | A | N | A |  |  |  | 18  S | U | N |  | E |  | E |
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| **Across**  **1.** The openings in a leaf that allow the passing of gases into and out of the leaf  **2.** An important gas produced in photosynthesis  **4.** A small membranous sac within a chloroplast of a plant  **6.** Singular form of grana  **10.** Needed for photosynthesis, along with carbon dioxide and the sun.  **14.** Adenosine triphosphate (nucleotide)  **16.** Green pigment in plants  **17.** The stacks of thylakoids embedded in the stroma of the chloroplast  **18.** The original source of all earths energy  **19.** The decomposition or separation of molecules by the action of light  **20.** CO2 | **Down**  **3.** A living organism (tree, shrub, leaf, flower, etc.)  **5.** Process in which plants use the suns energy to make food  **7.** Organism that makes its own food from the sun  **8.** The place in a plant cell where photosynthesis happens  **9.** a sugar made up of carbon (C), hydrogen (H), and oxygen (O)  **11.** The water based, fluid filled area of the chloroplast  **12.** Protein molecules that aid in photosynthetic reactions  **13.** Sugar formed from carbon dioxide and water  **15.** Dark or light independent reactions |