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

Photosynthesis

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 1  P | H | O | T | O | R | E | S | P | I | R | A | T | I | O | N |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 2  T |  |  |  | 3  O | X | Y | G | E | N |  |  |  |  |  |  |  |
|  |  |  | H |  |  |  |  |  |  |  |  |  | 4  C |  |  |  |  |  |  |
|  |  |  | Y |  |  |  |  |  |  | 5  C |  |  | A |  |  |  |  |  |  |
|  |  | 6  P | L | A | N | T | S |  |  | A |  |  | 7  R | U | B | I | S | C | O |
|  |  |  | A |  |  |  |  |  |  | R |  |  | B |  |  |  |  |  |  |
|  |  |  | K |  |  |  |  | 8  R | U | B | P |  | O |  |  |  | 9  P |  |  |
|  | 10  W |  | O |  |  | 11  N |  |  |  | O |  |  | N |  |  |  | I |  | 12  A |
|  | A |  | I |  |  | A |  | 13  S |  | N |  |  | F |  | 14  L | I | G | H | T |
|  | T |  | D |  |  | D |  | T |  | D |  |  | I |  |  |  | M |  | P |
|  | E |  | M |  |  | P |  | R |  | I |  |  | X |  | 15  A |  | E |  | S |
|  | R |  | E |  | 16  C | H | L | O | R | O | P | L | A | S | T |  | N |  | Y |
|  |  |  | M |  |  |  |  | M |  | X |  |  | T |  | P |  | T |  | N |
|  |  |  | B |  |  |  |  | A |  | I |  |  | I |  |  |  | S |  | T |
|  |  |  | R |  |  |  |  |  |  | D |  |  | O |  |  |  |  |  | H |
|  | 17  G | R | A | D | I | E | N | T |  | E |  |  | 18  N | A | D | P | H |  | A |
|  |  |  | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | S |
|  |  |  | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | E |
|  |  |  |  | 19  C | A | R | B | O | N | R | E | D | U | C | T | I | O | N |  |

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| --- | --- |
| **Across**  **1.** The process when O2 binds to RuBP instead of CO2  **3.** The gas given off as a result of the light reaction  **6.** \_\_\_\_\_\_\_\_, algae, and cyanobacteria photosynthesize  **7.** Enzyme responsible for adding CO2 to RUBP  **8.** The sugar that CO2 is first added to in the Calvin Cylce  **14.** \_\_\_\_\_ is used to excited e- to power the ETC  **16.** The organelle where photosynthesis takes place  **17.** The purpose of the ETC is to make a \_\_\_\_\_\_\_\_.  **18.** \_\_\_\_\_\_ is the terminal electron accetor of the light reaction  **19.** The second step of the Calvin Cycle | **Down**  **2.** The light reaction occurs in the \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_  **4.** The first step of the Calvin Cycle  **5.** Gas needed for the Calvin Cycle  **9.** \_\_\_\_\_ capture light  **10.** \_\_\_\_\_\_ is split during the light reaction  **11.** Electron carrier used in photosynthesis  **12.** ATP is made using this enzyme  **13.** The Calvin Cyle occurs in the \_\_\_\_\_\_\_.  **15.** The H+ gradient is used as an energy source to make \_\_\_\_ |