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

Photosynthesis

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