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

Carbon and Oxygen Cycle

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

|  |  |
| --- | --- |
| **Across****5.** This is given out to air when food is used by animals during respiration to produce energy to live and grow**9.** Photosynthesis needs this.**11.** What takes place in the mitochondria during Gycolysis?**12.** This converts carbon dioxide and other compounds into glucose. These reactions occur in the stroma, in the chloroplast, and on the outside of the thylakoid membranes.**13.** This is a membrane in chloroplasts and the site of the light depended reactions of photosynthesis. **14.** Cellular Respiration takes place in this. | **Down****1.** This is used during respiration and given out during Photosynthesis. This also enters the Electron Transport Chain to make ATP.**2.** This is where the Carbon cycle and Calvin cycle of photosynthesis take place.**3.** Sunlight and water enters this to produce ATP, NADH, and Oxygen.**4.** This goes with sunlight and enters the light dependent reactions.**6.** What is broken down into Pyruvic Acid and used during the Kreb's Cycle?**7.** During photosynthesis, carbon dioxide is taken in from the atmosphere through this and oxygen is released as a waste product.**8.** Photosynthesis takes place in this.**10.** These are stacks of thylakoids in the stroma of a chlorplast that contain important light-absorbing pigments, such as chlorophyll. |