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

Plant Process

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 1P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  H |  |  |  |  |  |  | 2P |  |  |  |  |  |  |  |  |  |
| 3O |  S |  M |  O |  S |  I |  S |  |  | 4R |  E |  S |  P |  I |  R |  A |  T |  I |  O |  N |
|  |  |  |  T |  |  |  | 5C |  |  |  R |  |  |  |  |  |  |  |  |  |
|  |  |  |  O |  |  |  |  H |  |  |  M |  |  | 6A |  |  | 7C |  |  |  |
|  |  |  |  S |  |  |  |  L |  |  |  E |  |  |  B |  |  |  H |  |  |  |
|  | 8S |  |  Y |  | 9R |  O |  O |  T |  H |  A |  I |  R |  S |  |  |  L |  |  |  |
|  |  T |  |  N |  |  |  |  R |  |  |  B |  |  |  O |  |  |  O |  |  |  |
| 10C |  O |  R |  T |  E |  X |  |  O |  |  |  L |  |  |  R |  |  |  R |  |  |  |
|  |  M |  |  H |  |  |  |  P |  |  |  E |  |  |  P |  |  |  O |  |  |  |
|  |  A |  |  E |  | 11P |  H |  L |  O |  E |  M |  |  |  T |  |  |  P |  | 12X |  |
|  |  |  |  S |  |  |  |  A |  |  |  E |  |  |  I |  |  |  H |  |  Y |  |
|  |  |  |  I |  |  |  |  S |  |  | 13M |  E |  S |  O |  P |  H |  Y |  L |  L |  |
|  |  |  |  S |  |  |  |  T |  |  |  B |  |  |  N |  |  |  L |  |  E |  |
|  |  |  |  |  |  |  |  |  |  |  R |  |  |  |  |  |  L |  |  M |  |
|  |  | 14T |  R |  A |  N |  S |  P |  I |  R |  A |  T |  I |  O |  N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  N |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 15E |  P |  I |  D |  E |  R |  M |  I |  S |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across****3.**  movement of a solvent through a semipermeable membrane into a solution of higher solute concentration that tends to equalize the concentrations of solute on the two sides of the membrane**4.** a process in living organisms involving the production of energy**9.** : each of a large number of elongated microscopic outgrowths from the outer layer of cells in a root, absorbing moisture and nutrients from the soil.**10.** an outer layer of tissue immediately below the epidermis of a stem or root**11.** the vascular tissue in plants that conducts sugars and other metabolic products downward from the leaves**13.** the inner tissue (parenchyma) of a leaf, containing many chloroplasts**14.** the exhalation of water vapor through the stomata**15.** the outer layer of tissue in a plant, except where it is replaced by periderm. | **Down****1.** the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water**2.** A membrane that permits passage of water and certain substances in solution**5.** a plastid that contains chlorophyll and in which photosynthesis takes place.**6.** The process of absorbing or assimilating substances into cells or across the tissues and organs through diffusion or osmosis**7.** a green pigment, present in all green plants and in cyanobacteria, responsible for the absorption of light to provide energy for photosynthesis**8.** A tiny pore in a plant leaf surrounded by a pair of guard cells that regulate its opening and closure, and serves as the site for gas exchange.**12.** the vascular tissue in plants that conducts water and dissolved nutrients upward from the root and also helps to form the woody element in the stem. |

   photosynthesis       respiration       transpiration       absorption       stoma       mesophyll       chlorophyll       chloroplast       phloem       root hairs       permeable membrane       epidermis       cortex       xylem       osmosis