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| **Across****2.** It is one of the key ways plants release chemical energy.**4.**  It is a highly regulated membrane barrier that separates the nucleus from the cytoplasm in eukaryotic cells.**5.** It is the region of a chromosome to which the microtubules of the spindle attach.**8.** It is the opening on the underside of a leaf that takes in carbon dioxide and lets out oxygen.**12.** An organism that gains energy and food by eating other organisms.**14.** It is a cell that open and closes the stomata and protects it.**17.**  It forms chromosomes during cell division.**18.** It is the resting phase between divisions of meiosis. **19.**  It is a molecule that carries the genetic instructions. **20.** It is something humans need to drink to survive.**22.** They are long threadlike structures located in the nucleus of he cell.**24.**  They are involved in the development of spindle fibers in cell division.**26.**  They form a protein structures that divides the genetic material in a cell.**27.** The watery cell fluid that contains the cell organelles.**28.** It is the organelle involved in manufacture of food in plants photosynthesis.**29.** It is the stage in which chromosomes move away from one another to opposite of the poles spindle. | **Down****1.** It is the process that plants use to make energy.**3.** An organism that makes its own food.**6.**  it is the first stage of cell division.**7.**  it is the cytoplasmic division of a cell at the end of mitosis.**9.** A type of sugar plants make.**10.** It is a gas in the atmosphere that humans exhale.**11.**  It is the final phase of cell division**13.**  It is the second stage of cell division.**15.** It is a type of cell division. **16.** It is the organelle involved in cellular respiration.**21.** It is the main photosynthetic pigment in chloroplasts.**23.** It is the gas humans need to breathe in order to survive.**25.** It is a colored chemical compound that absorbs light . |