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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 . |