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| **Across**  **2.** A testable explanation for a set of observations based on the available data.  **3.** The diffusion of free water across a selectively permeable membrane.  **4.** Th main energy source for cells  **6.** Referring to a solution that, when surrounding a cell, will cause the cell to lose water.  **10.** The gain of electrons by a substance involved in a redox reaction; always accompanies oxidation.  **13.** An approach to understanding the natural world based on verifiable evidence.  **15.** A double-ring nitrogenous base found in DNA and RNA.  **18.** A single-ring nitrogenous base found in DNA.  **19.** The loss of electrons from a substance involved in a redox reaction; always accompanies reduction.  **20.** The sticking together of molecules of the same kind, often by hydrogen bonds.  **21.** Carbohydrate polymer of many monosaccharides | **Down**  **1.** Two alleles of a gene pair in a heterozygote both fully expressed.  **5.** A liquid that is a homogeneous mixture of two or more substances  **7.** Central region in a prokaryotic cell where the DNA is concentrated.  **8.** An atom or group of atoms that has gained or lost one or more electrons, thus acquiring an electrical charge.  **9.** The scientific study of life.  **11.** Found in RNA but not DNA.  **12.** A measure of disorder, or randomness. See also second law of thermodynamics.  **14.** Organelles found in plants that help conduct photosynthesis  **16.** The genetic makeup of an organism  **17.** The smallest component of an element.  **22.** The smallest structural and functional unit of an organism. |