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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. |