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Biochemistry

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| **Across**  **3.** An R-group is any group in which the carbon or hydrogen is attached to the rest of the molecule  **6.** Storage form of glucose in plants  **11.** Building blocks of protein  **12.** A complex organic substance present in living cells, especially DNA or RNA, whose molecules consist of many nucleotides linked in a long chain  **13.** A molecule that can be bonded to other identical molecules to form a polymer  **15.** Energy-rich organic compounds, such as fats, oils, and waxes, that are made of carbon, hydrogen, and oxygen  **16.** A single-stranded nucleic acid that passes along genetic messages  **17.**  Two monomers  **18.** Macromolecule that contains carbon, hydrogen, oxygen, and nitrogen; needed by the body for growth and repair  **19.** A simple sugar that is an important source of energy  **20.** Storage form of glucose in animals  **22.** Compound made up of carbon, hydrogen, and oxygen atoms; major source of energy for the human body | **Down**  **1.** Simple sugar molecule  **2.** Long chain of amino acids that makes proteins  **4.** Carbohydrates that are made up of more than two monosaccharides  **5.** A lipid containing a phosphate group in its molecule  **7.** A building block of DNA, consisting of a five-carbon sugar covalently bonded to a nitrogenous base and a phosphate group  **8.** Large compound formed from combinations of many monomers  **9.** A double sugar molecule made of two monosaccharides  **10.** Glucose and fructose  **14.** Carbohydrate component of plant cell walls  **21.** Glucose and galactose  **23.** A complex molecule containing the genetic information that makes up the chromosomes |