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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Macromolecules

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | 1  C | A | T | A | L | Y | S | T |  |  | 2  E |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
|  |  |  |  |  |  |  |  | 3  P |  |  |  |  |  |  |  | O |  |  |  |
|  |  |  |  |  |  | 4  C | A | R | B | O | H | Y | D | R | A | T | E |  |  |
|  |  |  |  |  |  |  |  | O |  |  |  |  |  |  |  | H |  |  |  |
|  |  |  | 5  E |  |  |  |  | T |  |  |  |  | 6  N |  |  | E |  |  | 7  F |
|  |  |  | N |  |  |  |  | E |  |  |  |  | U |  |  | R |  |  | A |
|  | 8  P |  | D |  |  |  |  | I |  |  |  |  | C |  |  | M |  |  | T |
| 9  M | O | N | O | M | E | R |  | N |  |  | 10  S |  | 11  L | I | P | I | D |  | T |
|  | L |  | T |  |  |  |  |  |  |  | U |  | E |  |  | C |  |  | Y |
|  | Y |  | H |  | 12  E | Q | U | I | L | I | B | R | I | U | M |  |  |  | A |
|  | M |  | E |  |  |  |  |  |  |  | S |  | C |  |  |  |  |  | C |
|  | E |  | R |  | 13  P | R | O | D | U | C | T |  | A |  |  |  |  |  | I |
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|  |  |  | I |  |  | 14  A | M | I | N | O | A | C | I | D | S |  |  |  | S |
|  |  |  | C |  |  |  |  |  |  |  | T |  | D |  |  |  |  |  |  |
|  |  |  |  |  |  | 15  E | N | Z | Y | M | E |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | 16  R | E | A | C | T | A | N | T |  |  |  |  |  |  |

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| **Across**  **1.** a substances that decreases the activation energy needed to start a chemical reaction and, therefore, increases the rate of the chemical reaction  **4.** a molecule composed of carbon, hydrogen, and oxygen, includes sugars and starches  **9.** a subunit of a complete molecule?  **11.** nonpolar molecules, includes fats, oils, and cholesterol  **12.** condition in which reactants and products of a chemical reaction are formed at the same rate  **13.** substance formed by a chemical reaction  **14.** molecules that contain carbon, hydrogen, oxygen, nitrogen, and sometimes sulfur  **15.** catalysts for chemical reactions in living things  **16.** a substance that is changed by a chemical reaction | **Down**  **2.** chemical reaction that yeilds a net release of energy in the form of heat  **3.** a polymer made of monomers called amino acids  **5.** chemical reaction that requires a net input of energy  **6.** a polymer made of monomers called nucleotides, DNA and RNA are genral types of nucleic acids  **7.** chains of carbon atoms bonded to hydrogen atoms, saturated or unsaturated  **8.** a large molecule, or macromolecule, made of many monomers bonded together  **10.** a specific reactant that an enzyme acts on |