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

Ch 2: CHEMISTRY OF LIFE

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  A |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  L |  | 3  C |  | C |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 4  N | U | C | L | E | I | C | A | C | I | D | S |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P |  | R |  | D |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5  S |  |  |  | I |  | B |  |  |  |  | 6  P |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | O |  | 7  H | Y | D | R | O | G | E | N | B | O | N | D |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 8  C |  | L |  |  |  | S |  | Y |  |  |  |  | L |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | H |  | V |  |  |  |  |  | D |  |  |  |  | Y |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 9  E | L | E | M | E | N | T |  | R |  |  |  |  | M |  |  |  |  |
|  |  |  |  |  |  |  |  | 10  M |  |  |  | M |  | N |  |  |  |  |  | A |  |  |  |  | E |  |  |  |  |
|  |  |  |  |  |  |  |  | O |  |  |  | I |  | T |  | 11  I |  |  |  | T |  | 12  R |  |  | R |  |  |  |  |
|  |  |  |  |  |  |  |  | L |  |  |  | C |  |  | 13  S | O | L | U | T | E |  | E |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | E |  |  |  | A |  |  |  | N |  |  |  | S |  | A |  |  | 14  P |  |  |  |  |
|  |  |  |  |  |  |  |  | C |  |  |  | L |  |  |  | I |  |  |  |  |  | C |  |  | R |  |  |  |  |
|  |  |  |  |  |  | 15  C |  | U |  |  | 16  P | R | O | D | U | C | T | S |  |  |  | T |  | 17  I | O | N |  |  |  |
|  |  |  |  |  |  | O |  | L |  | 18  B |  | E |  |  |  | B |  |  |  |  |  | A |  |  | T |  |  |  |  |
|  |  |  | 19  A | T | O | M |  | E |  | A |  | A |  |  | 20  S | O | L | U | T | I | O | N |  |  | E |  |  |  |  |
|  |  |  |  |  |  | P |  |  |  | S |  | C |  |  |  | N |  |  |  |  |  | T |  |  | I |  |  |  |  |
|  |  |  |  |  | 21  C | O | V | A | L | E | N | T | B | O | N | D |  | 22  C | O | H | E | S | I | O | N |  |  |  |  |
|  |  |  |  |  |  | U |  |  |  |  |  | I |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | N |  |  |  |  | 23  M | O | N | O | M | E | R |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | D |  |  |  | 24  P |  | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 25  A | D | H | E | S | I | O | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Across**  **4.** polymers that are made of monomers called nucleotides  **7.** attraction between a slightly positive hydrogen atom and a slightly negative atom  **9.** one particular type of atom which cannot be broken down into simpler substances  **13.** substance that dissolves in a solvent  **16.** substances made by a chemical reaction  **17.** atom that gained or lost one or more electrons  **19.** smallest basic unit of live  **20.** mixture of substances that is the same throughout  **21.** forms when atoms share a pair of electrons  **22.** attraction among molecules of a substance  **23.** small molecules that make up each subunit in a complete molecule  **25.** attraction among molecules of different substances | **Down**  **1.** compound that releases a proton when dissolved in water  **2.** nonpolar molecules that include fats, oils and cholesterol  **3.** molecules composed of carbon, hydrogen and oxygen-sugars and starches  **5.** substance that is present in the great amount and that dissolves another substance  **6.** large molecule made of many small units bonded together  **8.** change substances into different substances by breaking and forming chemical bonds  **10.** two or more atoms held together by covalent bonds  **11.** forms through the electrical force between atoms with opposite charges  **12.** substances that change during a chemical reactions  **14.** polymer made of monomers called amino acids  **15.** substance made of atoms of different elements bonded together in a certain ratio  **18.** compound that remove H+ ions from solution  **24.** scale to measure acidity or H+ concentration |