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

Unit 3 Crossword Puzzle

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|  |  | 1  C | O | V | A | L | E | N | T | B | O | N | D |  | 2  E |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | L |  |  |  |  |
|  |  |  |  |  |  |  |  | 3  E |  |  |  |  |  | 4  F | E |  |  |  |  |
|  |  |  |  |  |  |  |  | L |  |  |  |  |  |  | C |  |  |  |  |
| 5  F |  |  |  |  |  |  | 6  P | E | R | I | O | D | I | C | T | A | B | L | 7  E |
| A |  |  |  |  |  |  |  | M |  |  |  |  |  |  | R |  |  |  | L |
| M |  | 8  I | S | O | T | O | P | E | S |  | 9  P | E | R | I | O | D | S |  | E |
| I |  |  |  |  |  |  |  | N |  | 10  N |  |  |  |  | N |  |  |  | C |
| L |  |  |  |  | 11  E | X | O | T | H | E | R | M | I | C |  |  |  |  | T |
| I |  |  |  |  |  |  |  |  |  | U |  |  |  |  |  |  |  |  | R |
| E |  |  |  |  |  | 12  E | N | D | O | T | H | E | R | M | I | C |  |  | O |
| S |  |  |  | 13  P |  |  |  |  |  | R |  |  |  |  |  |  |  |  | N |
|  | 14  A | V | E | R | A | G | E | A | T | O | M | 15  I | C | M | A | S | S |  | C |
|  |  |  |  | O |  |  |  |  |  | N |  | O |  |  |  |  |  |  | L |
|  |  | 16  C | A | T | A | L | Y | S | T |  |  | N |  |  |  |  |  |  | O |
|  |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  |  |  |  | U |
|  |  |  |  | 17  N | U | C | L | E | U | S |  | 18  C | O | M | P | O | U | N | D |
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| **Across**  **1.** Chemical bond by sharing of valence electrons  **4.** Symbol for Iron  **6.** Chart that shows the elements  **8.** Atoms of the same element that have different amounts of neutrons  **9.** Horizontal rows on the Periodic Table are called  **11.** Chemical Reaction that releases energy  **12.** Chemical reaction that absorbs energy  **14.** Average mass of an element's isotopes  **16.** Substance that speeds up a chemical reaction  **17.** Center part of an atom that holds protons and neutrons  **18.** When 2 or more elements combine  **19.** Number or protons in an atom | **Down**  **2.** Negative charge of an atom  **3.** Substance that cannot be broken down into smaller parts  **5.** Vertical columns on the Periodic Table are called  **7.** Area in an atom where an electron is found  **10.** Neutral Charge of an atom  **13.** Positive charge of an atom  **15.** Atom that is no longer neutral because of gained/lost electrons |