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

Elements Tic-Tac-Toe

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|  |  |  | 5  L |  |  |  |  |  |  |  | 6  T | I | T | A | N | I | U | M |  |
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|  |  |  | T |  |  |  | 7  H |  | 8  A | L | U | M | I | N | U | M |  |  |  |
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|  |  | 12  S | U | L | F | U | R |  |  | R |  |  | 13  S | I | L | I | C | O | N |
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|  |  |  |  |  |  |  | G |  | 15  S | O | D | I | U | M |  |  |  |  |  |
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| 16  N | I | T | R | O | G | E | N |  |  |  |  | 17  C | A | R | B | 18  O | N |  |  |
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|  |  |  |  |  |  | 20  P | O | T | A | S | S | I | U | M |  | E |  |  |  |
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| **Across**  **3.** used in electrical equipment such as wiring and motors  **6.** metal connects well with bone, so it has found surgical applications such as in joint replacements  **8.** a silvery-white, lightweight metal. It is soft and malleable  **12.** used for making car batteries, fertilizer, oil refining  **13.**  is one of the most useful elements to mankind. Most is used to make alloys including dynamo and transformer plates, engine blocks, cylinder heads  **15.** both an electrolyte and mineral  **16.** used to make fertilizers, nitric acid, nylon  **17.** used as a fuel. Can be turned into a diamond  **19.** is used in laboratories for making thermometers  **20.** Helps Control fluid balance found in bananas | **Down**  **1.** strengthens bones  **2.** gas is used to inflate blimps, scientific balloons and party balloons  **4.** is used in products that benefit from being lightweight, such as car seats, luggage, laptops  **5.** used mostly in rechargeable batteries  **7.** H Energy Source (water)  **9.** Fe Carries Oxygen in blood  **10.** is often used when an inert atmosphere is needed.  **11.** It takes a high polish and is used to coat other metals to prevent corrosion  **14.** It is needed for the body's immune system to properly work  **18.** a gas that your body needs to work properly. Your cells need it to make energy |

   Iron        Hydrogen       Potassium        Sodium       Calcium       Zinc       Aluminum        Magnesium        Titanium        Oxygen       Silicon       Carbon       nitrogen       Sulfur       helium       argon       Mercury        lithium        tin       copper