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

Periodic Table Vocabulary Crossword

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|  |  |  |  |  |  |  | 6  G |  |  | 7  E |  |  | 8  R | E | A | C | T | I | V | I | T | Y |  | N |  |  |  |  |  |
|  |  |  |  |  |  |  | R |  |  | L |  |  |  |  | L |  |  | N |  |  | R |  |  | S |  |  |  |  |  |
|  |  |  |  |  |  | 9  N | O | N | M | E | T | A | L |  | L |  | 10  P | E | R | I | O | D |  | I |  |  |  |  |  |
|  |  |  | 11  N |  |  |  | U |  |  | M |  |  |  |  | O |  |  | E |  |  | N |  |  | T |  | 12  A |  |  |  |
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|  |  | 14  A | L | K | A | L | 15  I | M | E | T | A | L | S |  |  |  |  | T |  |  | A |  |  | N |  | M |  |  |  |
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|  |  |  | C |  |  | 17  A | T | O | M | I | C | 18  M | A | S | S |  | 19  A | T | O | M | I | C | R | A | D | U | I | S |  |
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|  |  |  | R |  |  |  |  |  |  |  | 20  H | A | L | O | G | E | N | S |  |  |  |  |  |  |  | E |  |  |  |
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| **Across**  **5.** group 18 elements on the periodic table that contain 8 valence electrons (He has 2) and a full valence shell making them very stable and inert.  **8.** describes how likely an element is to form bonds with other elements.  **9.** an element that does not conduct electricity or heat and is usually a gas at room temperature. Nonmetals are brittle, have high ionization energies and high electronegativity values. Nonmetals tend to gain electrons to form anions  **10.** a horizontal row (left to right) in the periodic table.  **13.** a chart that organizes information about all of the known elements according to their atomic number.  **14.**  group 1 metals on the periodic table that contain 1 valence electron and lose their valence electrons the most easily, making them the most reactive metals.  **16.**  the smallest unit of an element that has all of the properties of the element; basic building block of matter.  **17.** the number of protons and neutrons in the nucleus of one atom of the element.  **19.** the distance between the nucleus of an atom and it's outermost energy level  **20.** group 17 nonmetals on the periodic table that contain 7 valence electrons. They only need to gain 1 valence electron to have a stable octet. They gain valence electrons the most readily, making them the most reactive nonmetals. | **Down**  **1.**  group 1 metals on the periodic table that contain 2 valence electrons and are the second most reactive metals.  **2.** the attraction a nucleus has resulting from its number of protons  **3.** an element that has some properties of a metal and some properties of a nonmetal. The metalloids are found on the boron staircase, there are 7 metalloids: B, Si, Ge, As, Sb, Te, and Po.  **4.**  group 3-­12 on the periodic table. They have varying valence electrons and do not follow the normal trends of the other metals. They form brightly colored compounds and ions in solution.  **6.**  a vertical column (up and down) on the periodic table.  **7.** a substance that cannot be broken down into a simpler substance by ordinary chemical means  **11.** the charge of an atoms nucleus resulting from its number of protons  **12.**  the number of protons contained in each nucleus of its atoms of the element.  **15.** elements and/or compounds that when put together are unable to react chemically. The noble gases (group 18) elements are inert because of a full valence shell.  **18.** an element or substance that conducts heat and electricity, is malleable and ductile and has low ionization energy and low electronegativity values. Metals |