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

Structure of the Atom

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|  |  |  |  |  |  |  |  |  |  | M |  | 5  A |  |  |  |  | A |  |  | 6  M | A | N |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | O |  | O |  |  |  | 7  P | E | R | I | O | D | S |  | 8  E |  |  |  |  |  |
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|  |  |  |  |  | 9  P | E | R | I | O | D | I | C | T | A | B | L | E |  |  | 10  N |  | 11  E |  | C |  |  |  |  |  |
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|  |  |  |  |  |  |  | 12  A |  |  | 13  A |  | A |  |  | 14  M | O | L | E | C | U | L | E |  | R |  |  |  |  |  |
|  |  |  |  |  |  |  | M |  |  | P |  | S |  | 15  A |  |  | E |  |  | T |  | C |  | O |  |  |  |  |  |
|  |  |  |  |  |  | 16  N | U | C | L | E | U | S |  | T |  |  | C |  | 17  P | R | O | T | O | N | S |  |  |  |  |
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|  |  |  |  |  |  |  |  | 18  M | A | S | S | N | U | M | B | E | R |  |  | N |  | O |  | L |  |  |  |  |  |
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| **Across**  **6.** Mass Number - Atomic Number = Number of Neutrons  **7.** The horizontal rows in the periodic table  **9.** Arrangement of elements according to atomic number on a table  **14.** A single atom or several atoms bound together electro magnetically bonded.  **16.** Center of atom  **17.** Positive particles around the nucleus  **18.** The sum of the number of neutrons and protons  **20.**  1. All matter consists of minuscule particles called atoms. 2. All atoms of a given element are identical to each other. 3. All atoms of a given element are different than those of other elements. 4. Atoms of one element combine with other elements to create compounds. They always combine in equal amounts. | **Down**  **1.** Pure substances that can't be broken down or changed  **2.** 2 or more elements chemically bonded  **3.** Abbreviation for each element  **4.** The electrons on the very outer ring of the atom  **5.** The property of an atom that causes it to have weight  **8.** Located outside the nucleus with electrons  **10.** Neutral charged particles around the nucleus  **11.** Negative particles outside the nucleus  **12.** Atomic Mass Unit  **13.** Atomic Number = Protons and Electrons  **15.** Quantity of protons and electrons in the nucleus of an atom  **19.** The vertical rows in the periodic table |