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

Periodic Table And Atoms

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|  |  |  |  |  |  |  |  | 2V |  A |  L |  A |  N |  C |  E |  E |  L |  E |  C |  T |  R |  O |  N |  S |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  V |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 3E |  N |  D |  O |  T |  H |  E |  R |  M |  I |  C |  R |  E |  A |  C |  T |  I |  O |  N |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4N |  U |  C |  L |  E |  U |  S |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  | 5I |  |  | 6E |  |  |  |  |  |  |  |  |  T |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  O |  |  |  L |  |  |  |  |  |  | 7P |  |  B |  |  |  |  |  |  |  |  |
|  |  |  |  | 8P |  R |  O |  T |  O |  N |  S |  |  E |  |  |  |  |  |  |  E |  |  O |  |  | 9R |  |  |  | 10A |  |
|  |  |  |  |  |  |  |  |  |  I |  |  |  C |  |  |  |  | 11M |  |  R |  |  N |  |  |  A |  |  |  |  V |  |
|  |  |  |  |  | 12I |  |  |  |  C |  |  |  T |  | 13N |  | 14P |  E |  R |  I |  O |  D |  I |  C |  T |  A |  B |  L |  E |  |
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|  |  |  |  |  |  S |  |  | 15C |  O |  M |  P |  O |  U |  N |  D |  |  A |  |  D |  |  |  | 16I |  O |  N |  |  |  A |  |
|  |  |  |  |  |  U |  |  |  |  N |  |  |  N |  |  M |  |  |  L |  |  S |  |  |  |  |  F |  |  |  |  G |  |
|  |  |  |  |  |  L |  |  |  |  D |  |  |  | 17M |  E |  T |  A |  L |  S |  |  |  |  |  |  R |  |  |  |  E |  |
|  |  |  |  |  |  A |  |  |  |  |  |  |  |  |  T |  |  |  O |  |  |  |  |  |  |  E |  |  |  |  A |  |
|  |  | 18E |  X |  O |  T |  H |  E |  R |  M |  I |  C |  R |  E |  A |  C |  T |  I |  O |  N |  | 19C |  A |  T |  A |  L |  Y |  S |  T |  |
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|  | 24A |  T |  O |  M |  I |  C |  N |  U |  M |  B |  E |  R |  | 25M |  A |  S |  S |  N |  U |  M |  B |  E |  R |  |  |  |  |  A |  |
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| **Across****2.** The electrons in the outermost energy level of Niels Bohr's model of an atom**3.** Chemical Reactions that absorb energy **4.** The positively charged central part of an atom**8.** A positively charged particles that make up a nucleus**14.** A chart of elements arranged into rows and columns based on their chemical and physical properties **15.** A substance that is made of two or more elements chemically joined in a specific combination **16.** An atom no longer neutrally charged because it has lost electrons **17.** A group located on the left side of the Periodic Table that is a good conductor and shine when polished **18.** A chemical reaction that releases heat of light energy **19.** A substance that speeds up chemical reactions**20.** Pure substances that cannot be broken down into any simpler substances **23.** An area around an atomic nucleus where an electron is most likely to be found**24.** The number of protons in an atom of an element **25.** The sum of the number of protons and neutrons in an atom**26.** An object that has low electrical resistance and can allow electricity to flow easily**27.** Atoms of the same element that have different numbers of neutrons  | **Down****1.** A bond formed when two atoms share valence electrons **5.** An attraction that holds ions close together **6.** A particle with a single negative charge **7.** Horizontal rows on a Periodic Table **9.** The speed at which a reaction occurs **10.** The average mass of an element's isotopes**11.** Elements in the middle of the Periodic Table and are semiconductors.They also have properties that are similar to both metals and nonmetals **12.** An object that has higher electrical resistance and prevents electricity easily through a material **13.** Another group located on the right side of the Periodic Table that are insulators and are not shiny**21.** A nuetral particle in the nucleus of an atom **22.** Vertical columns on the periodic table  |