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| Properties  Metal | **Location on periodic table** | Properties  Non-metal | **Location on periodic table** |
| **Example** | **Non-example** | **Example** | **Non-example** |

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| Members of the same group have similar \_\_\_\_\_\_\_\_\_.  Group | **Picture to illustrate** | The period # tells us how many \_\_\_\_\_\_\_\_\_ levels the atom has.  Period | **Picture to illustrate** |
| **Name of the following groups**  **1—**  **2—**  **3-12—**  **17—**  **18--** | **Group name of following:**  **Na\_\_\_\_\_\_\_\_**  **F \_\_\_\_\_\_\_\_\_**  **Ne\_\_\_\_\_\_\_\_\_** | **What period are the following in:**  **K \_\_\_\_\_\_**  **P \_\_\_\_\_\_\_**  **Ni\_\_\_\_\_\_\_**  **At \_\_\_\_\_\_\_** | T/F:  Periods have similar  properties. |

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| Three main parts  The Atom   * \_\_\_\_\_\_\_\_\_ * \_\_\_\_\_\_\_\_\_ * \_\_\_\_\_\_\_\_\_ | **Picture to illustrate** | Definition  Isotopes | **Picture to illustrate** |
| **How do you determine**   * **Protons?** * **Neutrons?** | **\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_ are in the nucleus.**  **\_\_\_\_\_\_\_\_\_**  **are outside nucleus.** | **Example** | **Non-example** |

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| How does an atom get a negative charge?  Ions | **How does an atom get a positive charge?** | List the prefixes in order from kilo to milli.  Unit conversion | **If you move down the list, move the decimal to the \_\_\_\_\_\_\_\_\_. If you move up, move the decimal to the \_\_\_\_\_\_\_\_\_\_.** |
| **Ions with positive charge are called \_\_\_\_\_\_\_, negative charge are called \_\_\_\_\_\_\_\_\_.** | **How many electrons are in the following**  **Na+1\_\_\_\_\_\_\_\_**  **Mg+2\_\_\_\_\_\_\_\_**  **Cl-1\_\_\_\_\_\_\_\_\_**  **S-2\_\_\_\_\_\_\_\_\_** | **What units are used for the following:**  **Mass \_\_\_\_\_\_\_**  **Volume \_\_\_\_\_\_**  **Length \_\_\_\_\_\_** | Convert the following:  335 mg to cm  \_\_\_\_\_\_\_\_\_\_  4.20 L to kL  \_\_\_\_\_\_\_\_\_  7.3 Dm to cm  \_\_\_\_\_\_\_\_\_ |

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| Definition  Physical Change | Ways to recognize | Definition  Chemical Change | **Clues** |
| **Examples** | **Non examples** | **Example** | **Non-example** |

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| Heating Curve | **Identify each region**  **1.**  **2.**  **3.**  **4.**  **5.** | Definition  Kinetic Molecular Theory | **Picture** |
| **Melting point**  **\_\_\_\_\_\_\_\_\_\_\_**  **Boiling point**  **\_\_\_\_\_\_\_\_\_\_\_\_** | **During phase changes, the temperature**  **a. increases**  **b. decreases**  **c. stays the same** | **To make molecules move faster you would…..** | List the phases of matter from highest to lowest energy. |