**Interactions of Matter: Study Guide**

|  |  |
| --- | --- |
|  |  |
| **Elements, Compounds, Mixtures**  **Define and Illustrate**   1. Element 2. Diatomic Element 3. Compound 4. Mixture of Elements 5. Mixture of Elements & Compounds |  |
| **Atomic Structure**  **Define and illustrate the following:**   1. Atom 2. Proton 3. Neutron 4. Electron 5. Nucleus |  |
| **Element Box Descriptions**  **Draw an element box.**  **Define and label the following terms.**   1. Atomic Number 2. Atomic Mass 3. Element Symbol 4. Element Name |  |
| **Periodic Table Organization**  **Define each term. Answer each question.**   1. Period - What does the period tell you about the element? 2. Group - What does the group tell you about the element? 3. Metals - Where are they located in regards to the “stairs” 4. Nonmetals - Where are they located in regards to the “stairs” 5. Metalloids - Where are they located in regards to the “stairs” |  |
| **The Groups**   |  |  |  | | --- | --- | --- | | **Group #** | **Group Name** | **Two Important Characteristics** | | 1 | The Alkali Metals | 1. They are the most reactive metals. **2.** They have one valence electron. | | 2 |  |  | | 3-12 |  |  | | 13 |  |  | | 14 |  |  | | 15 |  |  | | 16 |  |  | | 17 |  |  | | 18 |  |  | | |