**Interactions of Matter: Study Guide**

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| **Elements, Compounds, Mixtures****Define and Illustrate** 1. Element
2. Diatomic Element
3. Compound
4. Mixture of Elements
5. Mixture of Elements & Compounds
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| **Atomic Structure****Define and illustrate the following:**1. Atom
2. Proton
3. Neutron
4. Electron
5. Nucleus
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| **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
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| **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”
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| **The Groups**

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| **Group #** | **Group Name** | **Two Important Characteristics** |
| 1 | The Alkali Metals | 1. They are the most reactive metals. **2.** They have one valence electron.
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