Unit 0: Matter

**Elements, Compounds, and Mixtures**

1. What is the difference between an element and a compound?
2. List 3 elements and 3 compounds
3. What are the two types of mixtures and how do you define them. Give an example of each.
4. Create a t chart showing the types of separation, and their technique used to separate.

**Physical vs Chemical Properties and Changes**

1. Create a chart with the headings: property, definition, and examples of each and fill with information for chemical and physical properties.
2. Define qualitative and quantitative observations and give an example of each.
3. Define intensive and extensive and give an example of each.
4. What is density and what is its formula?
5. What are the two ways to calculate volume for the density?
6. What is the meniscus?
7. Show work for density problem #1 here.
8. Show work for density problem #2 here.
9. Create a chart with the headings: change, definition, and examples of each and fill with information for chemical and physical changes.
10. What are the signs of a chemical change?