**Unit 4: Classifying Matter**

**Homework**

1. Distinguish, in detail, the differences between a pure substance and a mixture. Be sure your answer includes properties, composition, and separation methods.
2. Cite evidence that we have observed that proves atoms combine to form compounds.
3. Describe the difference between atoms, elements, and compounds.
4. Explain Avogadro’s hypothesis.
5. State features of Dalton’s model of the atom.
6. State the law of definite proportions.
7. State the law of multiple proportions.