**Nuts and Bolts: Laboratory Assessment**

**Part I.** *Answer the questions below.*

1. What is an element?

2. What is an atom? Where can an atom be found?

3. What is a molecule? Where can a molecule be found?

4. What is a compound?

5. What is a homogeneous mixture?

6. What is a heterogeneous mixture?

7. How can you tell the difference between a compound and a mixture?

**Part II.** *Identify the samples as one of the following categories: atoms of an element, molecules of an element, molecules of a compound, heterogeneous mixture, or homogeneous mixture.*

Sample 1:

Sample 2:

Sample 3:

Sample 4:

Sample 5:

Sample 6:

Sample 7:

Sample 8:

Sample 9:

Sample 10:

**Part III.** *Answer the questions about the samples.*

1. How was a chemical bond represented?

2. How could you tell a homogeneous mixture from a heterogeneous mixture?

3. How could you tell molecules of an element from molecules of a compound?