Build an Atom: Student Activity Sheet

Name:_____ Date:_____

Part 1: Building a Helium Atom

1. Fill in the information with your class.

Name: # of Electrons:

Symbol: # of Neutrons

# of Protons:

2. Draw a sketch here of the Helium atom. Label the subatomic particles and their charges.

3. Where are the protons and neutrons found in an atom? _____
4. Where are the electrons found in an atom? _____
5. In your model what represents the protons? What represents the neutrons? What represents the electrons? _____

_____

Part 2: What Atom Do You Have?

1. Look at the contents of your atom bag. Complete the information below before building your atom.

    - Number of protons:
    - Number of electrons:
    - Number of neutrons :

2. Now build your atom, being sure to place each part in the correct position. Draw a sketch of your model below.

3. Element Name:

   Element Symbol:

   Atomic Mass:

4. When your teacher instructs you to, rotate to a different group and complete the chart below.

Number of Protons	Number of Neutrons	Number of Electrons	Element Name	Element Symbol

5. If an element with 300 protons were discovered with a mass of 600 was discovered, how many neutrons and protons would you expect it to have? Explain your answers. _____

   _____

   Where would each particle be located in an atom of this element? _____

   _____