



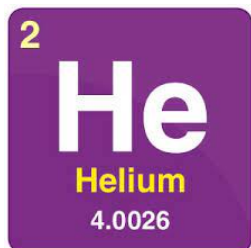
Build an Atom: Student Activity Sheet

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? _____