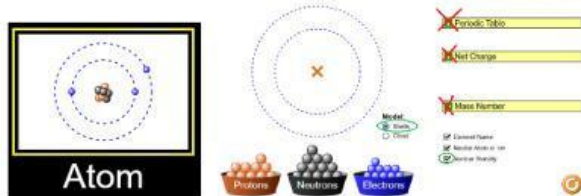


Name _____ Date _____

Build an Atom Worksheet

Directions: Go to the website: phet.colorado.edu. Click on HTML5 simulations on top right of screen and choose the Build an Atom simulation (<http://phet.colorado.edu/en/simulation/build-an-atom>)



Warm up from notes. Fill in the blanks

Atoms make up all _____
 Atoms are made of 3 _____ particles.
 The smallest sub-atomic particle is the _____

Section 1 : Answer the Questions

1. Which types of "balls" can be dragged to the middle of the atom?
2. What happens if you drag 2 protons to the center of the atom?
3. What happens when you drag an electron to the middle of the atom? What is the net charge of the atom?
4. What happens if you drag 2 protons and 2 electrons to atom?
5. What happens if you drag 3 protons, 3 electrons, and then 3 neutrons to the atom?
6. Press reset... What happens if you drag 6 neutrons to the atom? What's the charge? And describe it.
7. Press reset... What happened if you drag 6 protons to the atom? What the charge? And describe it.
8. Based on the simulator, What makes the atom stable?
9. How many electrons can be placed on the inner ring?
10. How many electrons can be placed on the outer ring.

Section 2 Draw the Atom Model

3 Protons 3 Neutrons 3 Electrons	6 Protons 6 Neutrons 6 Electrons	1 Protons 1 Neutrons 1 Electron
Name of the Atom:	Name of the Atom:	Name of the Atom: