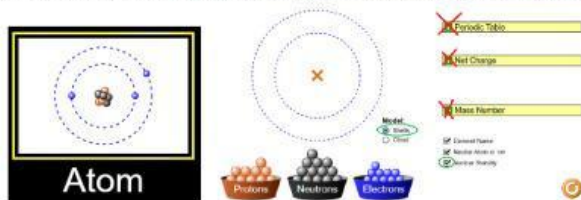


Name _____ Date _____

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

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