## Atomic model worksheet

1.	Where did Rutherford believe the protons were found?actually found there?		, are they
2.	Where did Rutherford believe the elect actually found there?		, are they
3.	How did Bohr improve Rutherford's model?		
4.	What is the maximum number of electrons orbit 1 can hold? Orbit 2 Orbit 3 and orbit 4		
5.	Where would the number of protons be located on a periodic table?		
6.	How can you determine the number of electrons a neutral atom has?		
7.	If oxygen has 8 protons, how many electrons would it have?		
8.	When do you know to use the next orbital when placing the electrons?		
9.	Make a Bohr-Rutherford model for the Aluminum	following elements: Nitrogen	Argon
	Hydrogen	Calcium	Sodium

- 10. Rutherford modified the atomic model after doing experiments where alpha particles were dispersed be a sheet of gold foil. Consider the following statements:
- 1- The number of protons is equal to the number of electrons
- 2- Protons are concentrated in a small positive space at the center of the atom
- 3- Atoms consist of mostly empty space
- 4- Electrons are contained in a positive sphere made up of protons
- 5- Electrons move about in specific energy levels

Which of these statements are based on Rutherford's experiments?

A) 1 and 2 B) 1 and 4

C) 2 and 3

D) 3 and 5