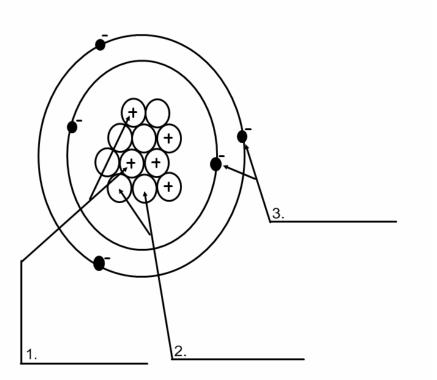
Period_____

Atomic Structure Worksheet

Label the parts of an atom on the diagram below.



- 4. What type of charge does a proton have?
- 5. What type of charge does a neutron have?
- 6. What type of charge does an electron have?
- 7. Which two subatomic particles are located in the nucleus of an atom?
- 8. If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?
- 9. What is the atomic number of the atom in the diagram above?
- 10. What is the atomic mass/mass number of the atom in the diagram above?
- 11. How many protons are in the nucleus of an atom with an atomic number of 15?
- 12. How many electrons are in the nucleus of an atom with an atomic number of 20?
- How many neutrons are in the nucleus of an atom with an atomic number of 25? (use Periodic Table for mass)
- 14. What is the mass number of an atom with 3 protons, 4 neutrons, and 3 electrons?
- 15. How many neutrons are in the nucleus of an atom that has an atomic mass of 36 and an atomic number of 25?

Bohr Model Drawing (25 points)

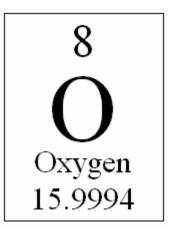
Draw a Bohr model of an **oxygen** atom in the space below. Be sure to place the electrons in the correct orbitals and to fill out the key for the subatomic particles.

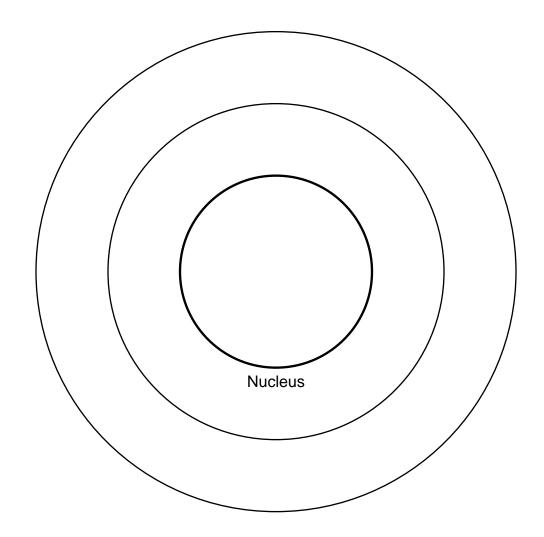
<u>Key</u>

Protons:

Neutrons:

Electrons:





The Atoms Family Atomic Math Challenge

