

Name: _____ Date: _____ Pd: _____

Atomic Structure Review Worksheet

Chapter 3.1

1. What are the three subatomic particles and their charges?
2. What is the name of the center of the Atom?
3. What two subatomic particles are contained in the Nucleus?
4. Which subatomic particle is smaller than the rest?
5. Which subatomic particle orbits around the exterior of the nucleus?
6. How is it possible for an atom to have a neutral charge? (ie – what has to occur?)
7. What makes an atom of one element differ from an atom of another element?
8. Why is it impossible to determine exactly where the electrons are at a given point in time?

9. What is the name of the **region** in which electrons are found?
10. What are the names of the four orbitals and how many electrons can they possibly hold?
11. What are valence electrons?
12. If an atom has a total of 5 electrons, how many valence electrons could the atom have?
13. If an atom has a total of 20 electrons, how many valence electrons could the atom have?
14. If an atom has a total of 35 electrons, how many valence electrons does the atom have?