Name:	
Date:	Blk:

Worksheet: Section 7.1 (page 248-254) Feel free to use your textbook or notes for this worksheet

- 1. The atom consists of three smaller sub particles
  - a. Give the name and charge of each of these
  - b. State where in the atom each is found
- 2. If the number of positive charges equals the number of negative charges, the atom
  - is\_\_\_\_\_?
- 3. How are solid materials charged?
- 4. What is the overall charge when an atom has more protons than electrons?
- 5. What happens to the charge on an atom when it gains electrons?
- 6. What can happen to electrons during friction?
- 7. In terms of motion of electrons, what is the difference between an insulator and a conductor?
- 8. Explain how an object that up made up of millions of electrons and protons can still be neutral?
- 9. What is the purpose of a Van de Graaf generator?
- 10. What are four uses of static electricity?

11. What is grounding?

12. Why do fuel trucks and airplanes need to be grounded before pumping fuel?

13. Who hypothesized the theory of electrical fluid, and called a shortage of electrical fluid negative?

14. Do insulators allow electrons to move freely?

15. Why are metals good conductors?

16. What is the charge on an object after it is grounded?

17. Which subatomic particle is transferred when a neutral object becomes charged?

18. Why does a charged balloon stick to a wall?