Atom Worksheet

Notes

The Atom - Building Block of all matter.

- Structure
 Nucleus (Core) particles

 - i) Neutrons
 (1) No Charge
 (2) Strongly Bound to Protons
 ii) Protons
 - - (1) Positively Charged
 (2) Number Identifies the element
 (3) Strongly bound to Neutrons

 - b) Orbiting particles
 - i) Electrons
 - (1) Negatively Charged
 (2) Farther out from nucleus, weaker the bond
 ii) Multiple orbits dependent on number of electrons

 - (1) Outside orbit valence shell
 (2) Fewer than 4 electrons in valence shell = conductor
- 2) Types
 - a) Balanced
 - i) Equal number of Protons and Electrons
 ii) Zero Charge
 - b) Unbalanced
 - i) Negatively Charged Ion More Electrons than Protons
 ii) Positively Charged Ion More Protons than Electrons