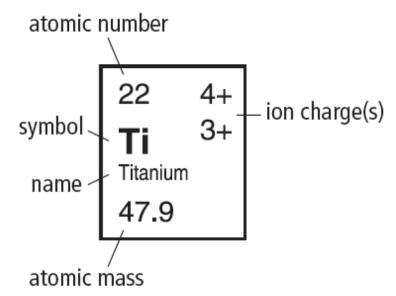
Periodic Table, Drawing Bohr Diagrams

Periodic Table

The Periodic Table provides information
on the physical and chemical properties of elements

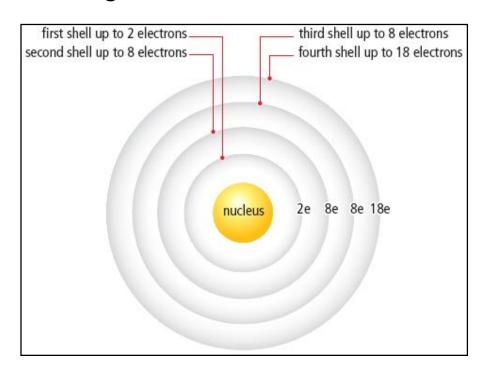


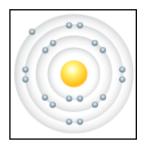
Atomic Mass - mass of average atom (including its isotopes) and is calculated using the number of protons (atomic number) and neutrons. We always round to the nearest whole number for calculations.

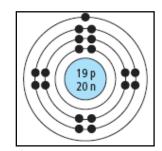
Atomic Number - number of protons **Ion Charge** - electric charge that forms when an atom gains or loses electrons

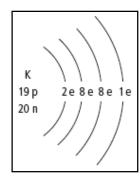
2.3 Periodic Table and Atomic Theory

- Elements with similar properties have similar electron arrangements
- Bohr models show electron arrangement in shells or orbitals
- The arrangement of electrons in these orbitals is called electron configuration









Bohr model patterns

- Chemical families on the periodic table have the same number of valence electrons (electrons that appear on the valence or outer most shell)
- Elements in the same period have the same number of shells
- Period number indicates the number of electron shells.

