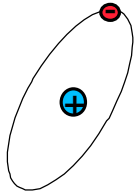


Isotopes of Hydrogen

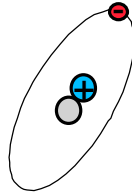


Protium

1 Proton

0 Neutron

Neutrons = 1 - 1

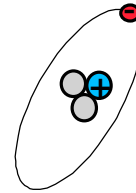


Deuterium

1 Proton

1 Neutron

Neutrons = 2 - 1



Tritium

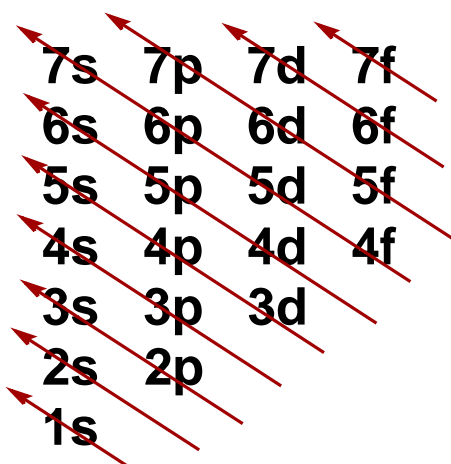
1 Proton

2 Neutron

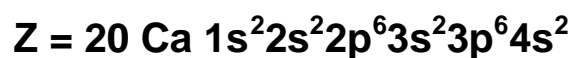
Neutrons = 3 - 1

Aufbau Principle

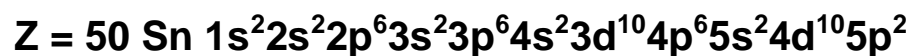
- 1) Number of electrons from atomic number.
- 2) Fill lowest energy (ie. 1s) shell first.
- 3) Fill each shell until full.
- 4) Fill subshells (ie. s, p, d) in order given below!!



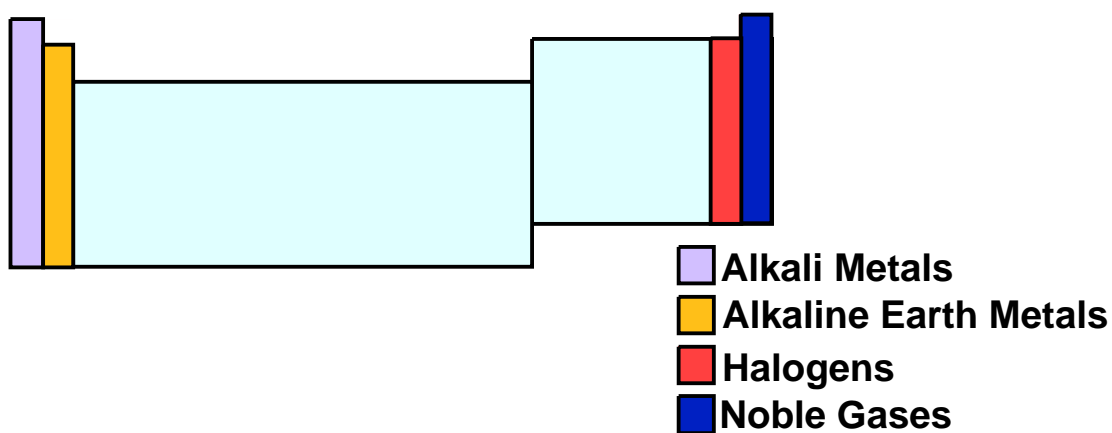
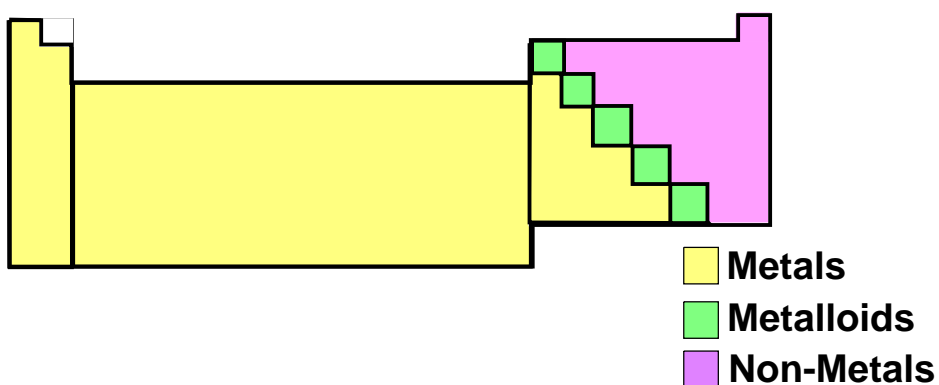
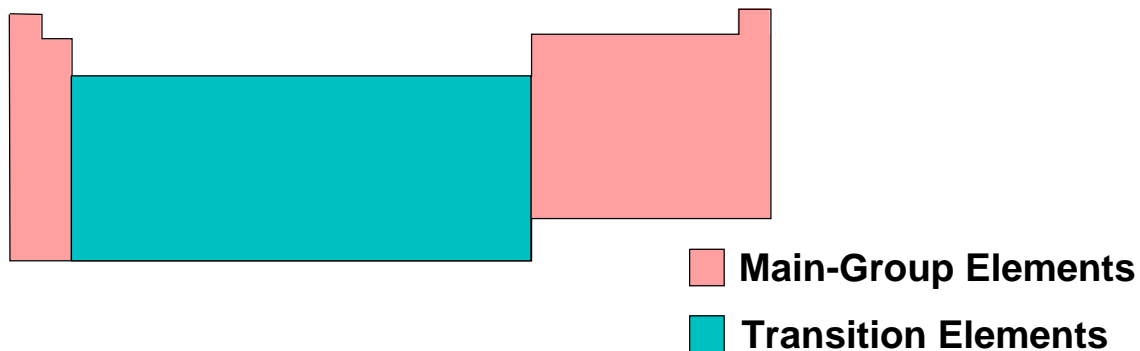
What is the electron configuration of Calcium (Ca, Z = 20)?



What is the electron configuration of Tin (Sn, Z = 50) ?

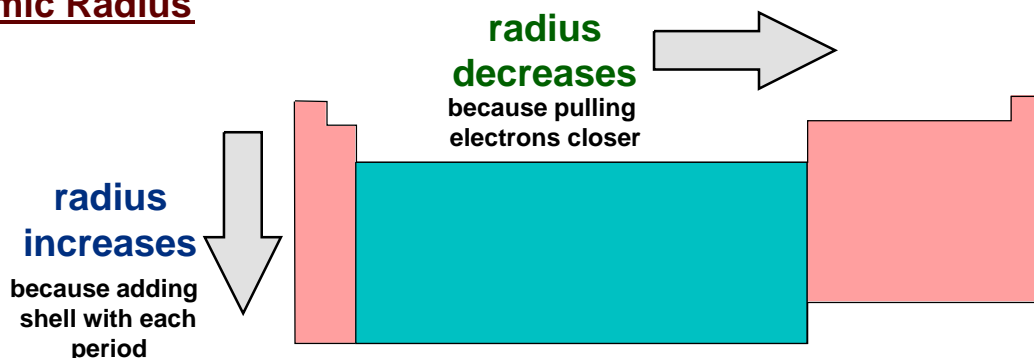


Periodic Table Element Classification



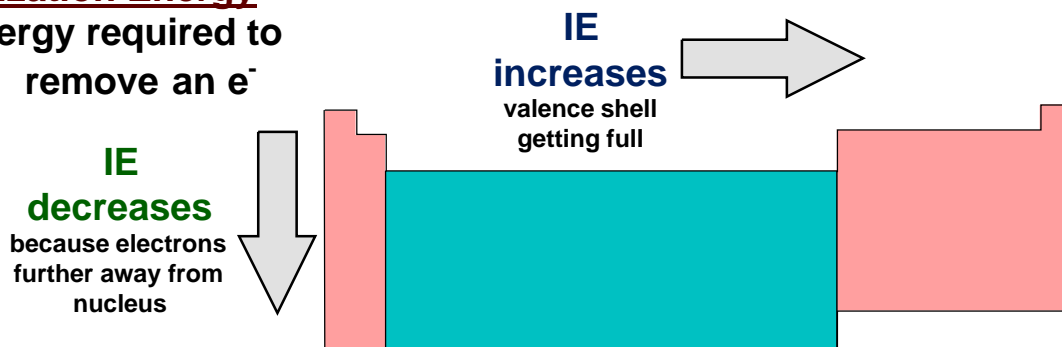
Periodic Table Trends

Atomic Radius



Ionization Energy

Energy required to remove an e^-



Electron Affinity

Energy released when add e^-

