

Test Review Week 9-24-18

- Basic Atomic Structure

- P. Trends

- a. size (neutral elements and ions)
- b. ionization energy
- c. force of attraction
- d. reactivity 1A, 2A and 7A
- e. electronegativity
- f. Z_{eff} vs distance of e^- from protons

① Z_{eff} , "n" level for cations

② e^- repulsion for anions

- calculation of Z_{eff} for valence e^- or any e^-

- Electron configuration

- a. neutral elements
- b. ions

c. Period 4 ions: they ionize 4s e^- first before 3d!
Sc \rightarrow Zn

- Orbital Diagrams Hund's Rule

d. core vs valence

- Lab questions

- a. flame colorations
- b. Tests for easy cations and anions and nitrate