

9-16-19 Test Review

Periodic Trends

- force of attraction
- size
- ionization energy
- neutral and ions

} Z_{eff} calculations
and the
why? question

Electron Configuration (EC)

- ions and neutral elements

Orbital Diagrams (OD)

- EC and OD valence e^-

s, p, d orbitals - how
many e^- in each

} core
vs valence

- Protons, neutrons, e^-
- Auf Bau - know potential
energy relationships
- know what defines
surface of atom
- charge of the e^-
- Identification of
paired vs unpaired
 e^- (Hund's Rule)

Z_{eff} versus distance

L $\rightarrow$ R and down
any group

Lab

Flame test colors

Hydrogen test

oxygen test

Test for Cl^-

Test for Ag^+

Test for SO_4^{2-}

Test for Ba^{+2}

Test for CO_3^{2-}

- know all uploaded
documents
- Rate reactivity
of metals based
on our first labs.