

Trend review  
Two factors.

- 1) # protons  
(nuclear charge)
- 2) # energy levels  
(shielding effect)  
(inner core electrons)

# The trends

1) Atomic radius

2) Ionization energy  
(remove  $e^-$ ) always energy in

3) electron affinity  
(add  $e^-$ ) sometimes energy in  
sometimes out  
greater ~~more affinity~~ negative  $\Delta E$  out is prevalent.

4) electronegativity

5) ionic radius

p	11	12	13	14	15	16	17
e	10	10	10	10	18	18	18

6) activity

metals

nonmetals



