**EXERCISE #2 singing the spdf song CHEM 1114**

**2.1 Write the complete electron configuration for the elements below**

a) Cl

b) K

c) Mn

d) Se

**2.2 Write the abbreviated electron configurations for the elements below, assuming**

**they are in the gas phase or solids**

a) Ca

b) Al

c) As

**2.3. Write the correct, abbreviated d-switched configurations for the transition**

**metals below**

a) Cu

b) Fe2+

c) Zn2+

**2.4 Write the correct, pigeonhole diagrams for the transition metal species below**

a) Cr

b) Ni

c) Ag+