

**HONORS CHEM
ELECTRON CONFIGURATIONS
IN CLASS PRACTICE**

Write out the electron configurations for the following atoms in the ground state

F

S

Mg

Br

Fe

Cs

Pd

Te

Os

Gd

Am

Electronic Configuration Questions

name:

1. Sketch and complete the orbital E diagram for the following atoms on the back of this sheet: $_{17}\text{Cl}$, $_{26}\text{Fe}$, and $_{38}\text{Sr}$.
2. What are valance electrons?
3. Write the complete electronic configuration for the following elements, and circle the valence electrons.

$_{4}\text{Be}$

$_{28}\text{Ni}$

$_{12}\text{Mg}$

$_{35}\text{Br}$

$_{15}\text{P}$

$_{20}\text{Ca}$

$_{6}\text{C}$

$_{22}\text{Ti}$

$_{16}\text{S}$

$_{36}\text{Kr}$

$_{11}\text{Na}$

$_{31}\text{Ga}$

4. How many valance electrons do each of the following atoms have:

S _____

K _____

I _____

Fe _____

N _____

Mg _____

Note: Be able to write the electron configuration or draw an orbital energy diagram for any given element 1 - 36