## Transuranium Elements

- Elements with atomic number greater than 92 (uranium)
- Unstable
- Not found in nature

#### Noble Gas Notation

#### Argon:

To be completed in class! (leave 1-2 lines for labeling below each)

Potassium:

### Practice

Write electron configurations for the following elements using noble gas notation:



# Electron Configurations for Negative Ions

Negative ions have gained e-



#### e- are added to the *highest energy level*

Electron Configurations for Positive Ions Positive ions have lost e-



e- are removed from the *highest energy level* 

### Practice

Write electron configurations for the following ions using noble gas notation:

1. Br-

P<sup>3-</sup>
Cs<sup>+</sup>

To be completed in class! (leave 1 line below each)

4. Zn<sup>2+</sup>

\*Hint: Write the neutral configuration for positive ions and remove e<sup>-</sup> from highest energy level.