## Exploring Elements, Ions, and Compounds

Name	

Please complete the following requests (include both chemical symbol and chemical name):

Alkali metals  $\rightarrow$  +1 Halogens  $\rightarrow$  -1 - list three anions:

Alkaline Earth Metals  $\rightarrow$  +2 Polyatomic ions  $\rightarrow$  -1 or -2 or -3

- list three cations: - list 6 polyatomic anions with charge and name:

Polyatomic cations  $\rightarrow$  +1

- list one polyatomic cation:

Transition Metals  $\rightarrow$  +2, +3 or more

- list 6 transition metal cations (include Fe and Cu)

## *Ionic Compounds (cation + anion)*

Show two examples of the following (use the chemical formula):

- an alkali metal + a halogen:
- an alkaline earth metal + halogen:
(ex. Na⁺ + Cl⁻ → NaCl)

- an alkali metal + polyatomic anion: - an alkaline earth metal + polyatomic anion:

- a transition metal + halogen:

## Visiting the Chemistry Stockroom:

Look for <i>four</i> of the ionic compounds listed on the previous page (write the formula or name below):
List below 4 ionic compound that you did not list above, but found in the chemistry stockroom (write formula and name):
Select one ionic compound from the stockroom and bring it back to the lab for continued discussion.