

## Chemical Bonding: Ionic vs. Covalent

Ionic bonding            between a Metal and Non-Metal            (M + NM)  
 Covalent bonding      between a Non-Metal and Non-Metal            (NM + NM)

In the following compounds:

1. Decide if the elements are metals or non-metals.
2. Determine the type of bonding.
3. Determine if there was an electron(s) transfer or electron(s) share.
4. Count the number of atoms.

Compound	Element 1 M or NM	Element 2 M or NM	Bond Type (ionic or covalent)	Electron Transfer or Share	# of Atoms in Compound
PI <sub>3</sub>					
BaBr <sub>2</sub>					
CsF					
SO <sub>2</sub>					
Li <sub>3</sub> P					
MgS					
CCl <sub>4</sub>					

Elements	Working Space	Formula	Name	Number of Atoms
gallium				
iodine				
iron (I)				
phosphorus				
chromium (III)				
acetate				
			dinitrogen trioxide	
		P <sub>2</sub> O <sub>5</sub>		