

# Differences Between Ionic and Covalent Compounds

Indicate which type of bond—ionic or covalent—will form between each of the following pairs of atoms:

H and Cl	K and S	S and O	Li and O	N and O
C and S	Si and O	Mg and Cl	Fe and Cl	I and Cl
Sr and Br	K and N	P and O	Cu and I	Al and N
Ca and F	Cr and O	O and O	C and Cl	Ba and P

If the bond is ionic: Draw the dot diagram to indicate how electrons are transferred  
Write the formula for the compound  
Name the compound

If the bond is covalent: Determine if the bond is polar or nonpolar  
If polar, indicate which element would have a partial positive charge and which element would have a partial negative charge.