

Polarity of Molecules

1 Complete the chart below

Molecule	EN Difference	Type of Bond	Atom with greater EN	Molecule Symmetrical? Yes or No	Polar or Non-Polar Molecule?
PCl ₃					
NH ₃					
H ₂ O					
CaO					
H ₂ S					
HCl					

2. Determine the type of bond (ionic, polar covalent, or non-polar covalent) that will form between atoms of the following elements and show the polarity of the bond if it is polar covalent.

Elements	Type of Bond	Polarity <i>if</i> Covalent
Ca and Cl		
C and S		
Mg and F		
N and O		
H and O		
S and O		