

Chemical Bonding Worksheet

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

Determine if the elements in the following compounds are metals or non-metals. Describe the type of bonding that occurs in the compound.

Compound	Element 1 (metal or non-metal?)	Element 2 (metal or non-metal?)	Bond Type
NO ₂	N = non-metal	O = non-metal	covalent
NaCl			
SO ₂			
PO ₄ ³⁻			
MgBr ₂			
CaO			
H ₂ O			
K ₂ O			
Cu-Zn alloy			
O ₂			
CuCl ₂			
NO ₂ ⁻			
TiO ₂			
HF			
Rb ₂ S			
Au-Ag mixture			
Fe ₂ O ₃			
C ₆ H ₁₂ O ₂₂			