

# Chemical Bonding Worksheet

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Determine whether the constituents of the following compounds are metals or non-metals. Also, determine whether the bond is ionic or covalent.

Compound	1st Element	2nd Element	Type of Bond
HF			
MgBr <sub>2</sub>			
O <sub>2</sub>			
AlF <sub>3</sub>			
PI <sub>3</sub>			
CO <sub>2</sub>			
CaO			
CuCl <sub>2</sub>			
Rb <sub>2</sub> S			
NBr <sub>3</sub>			
NaCl			
CCl <sub>4</sub>			
Fe <sub>2</sub> O <sub>3</sub>			
NO <sub>2</sub>			
K <sub>2</sub> O			

# Chemical Bonding Worksheet

## Answers

Compound	1st Element	2nd Element	Type of Bond
HF	H; Non-metal	F; Non-metal	Covalent
MgBr <sub>2</sub>	Mg; Metal	Br; Non-metal	Ionic
O <sub>2</sub>	O; Non-metal	O; Non-metal	Covalent
AlF <sub>3</sub>	Al; Metal	F; Non-metal	Ionic
PI <sub>3</sub>	P; Non-metal	I; Non-metal	Covalent
CO <sub>2</sub>	C; Non-metal	O; Non-metal	Covalent
CaO	Ca; Metal	O; Non-metal	Ionic
CuCl <sub>2</sub>	Cu; Metal	Cl; Non-metal	Ionic
Rb <sub>2</sub> S	Rb; Metal	S; Non-metal	Ionic
NBr <sub>3</sub>	N; Non-metal	Br; Non-metal	Covalent
NaCl	Na; Metal	Cl; Non-metal	Ionic
CCl <sub>4</sub>	C; Non-metal	Cl; Non-metal	Covalent
Fe <sub>2</sub> O <sub>3</sub>	Fe; Metal	O; Non-metal	Ionic
NO <sub>2</sub>	N; Non-metal	O; Non-metal	Covalent
K <sub>2</sub> O	K; Metal	O; Non-metal	Ionic