

White Board Practice

Types of Bonds and Nomenclature

**Write down your answer on the
white board and hold it up when you
think that you have the answer!**

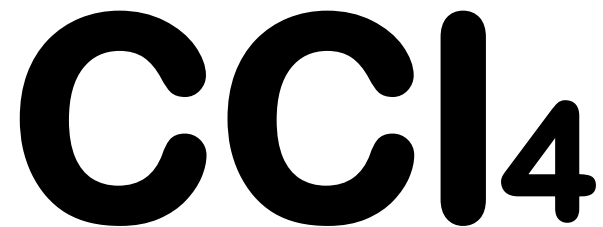
**How many valence
electrons does
Oxygen have?**

6 valence electrons

**What charge will oxygen
have when it forms an ion?
What will its name be?**

2-

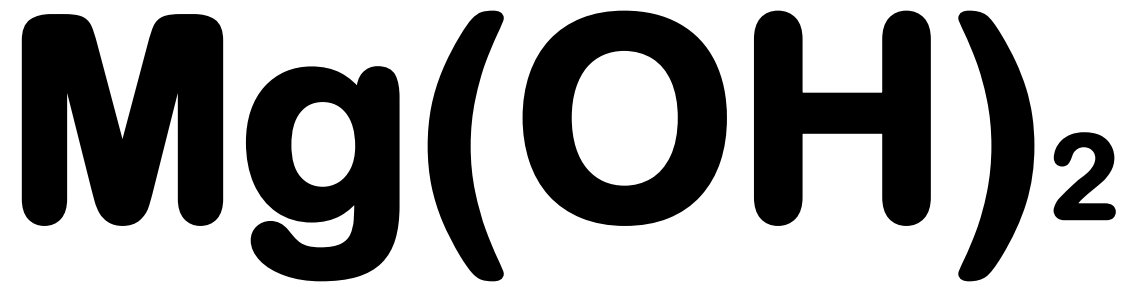
Oxide



Type of bond? Name?

Covalent,

Carbon tetrachloride



Type of bond? Name?

Ionic,

Magnesium hydroxide

NaCl

Type of bond? Name?

Ionic,

Sodium chloride



Type of bond? Name?

Ionic,
sodium fluoride



Type of bond? Name?

Ionic,

Barium nitrate



Type of bond? Name?

Ionic,

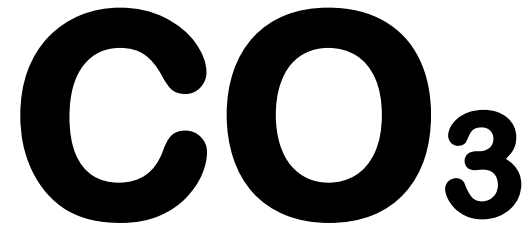
Lithium sulfate



Type of bond? Name?

Covalent,

Disulfur tetrafluoride



Type of bond? Name?

Covalent,

Carbon trioxide

**How many valence
electrons does
Sulfur have?**

6 valence electrons

What charge will sulfur have when it forms an ion? What will its name be?

2-

sulfide

**What are the names
for the common ions
 SO_4^{2-} and SO_3^{2-}**

Sulfate and Sulfite



Type of bond? Name?

Ionic,

Cesium Sulfide

**How many valence
electrons does
Radium have?**

2 valence electrons

**What charge will Radium
have when it forms an
ion? What will its name be?**

2+

Radium



Type of bond? Name?

Ionic,

Cobalt (III) Fluoride



Type of bond? Name?

Covalent,

Nitrogen dioxide

**How many valence
electrons does
Nitrogen have?**

5 valence electrons

**What charge will Nitrogen
have when it forms an
ion? What will its name be?**

3-

Nitride



Type of bond? Name?

Ionic,

Magnesium chloride



Type of bond? Name?

Ionic,

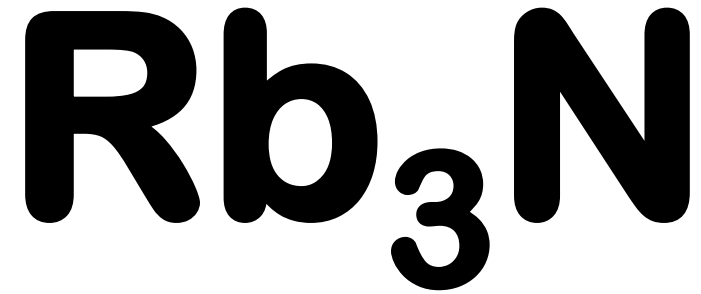
Aluminum sulfate



Type of bond? Name?

Ionic,

Silver nitrate



Type of bond? Name?

Ionic,

Rubidium nitride



Type of bond? Name?

Covalent,

Trihydrogen monophosphide



Type of bond? Name?

Covalent,

Dihydrogen monoxide



Type of bond? Name?

Covalent,

Sulfur hexafluoride



Type of bond? Name?

Ionic,

Sodium nitride

**How many valence
electrons does
Phosphorous have?**

5 valence electrons

**What charge will
Phosphorous have when it
forms an ion? What will
its name be?**

3-

Phosphide



Type of bond? Name?

Covalent,

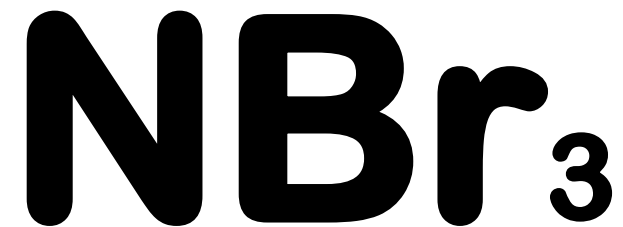
Nitrogen pentoxide

CO

Type of bond? Name?

Covalent,

Carbon monoxide



Type of bond? Name?

Covalent,

Nitrogen tribromide



Type of bond? Name?

Covalent,
dinitrogen heptachloride



Type of bond? Name?

Covalent,

Sulfur hexafluoride



Type of bond? Name?

Covalent,

Tetraphosphorous decoxide

NaI

Type of bond? Name?

Ionic,

Sodium iodide

BN

Type of bond? Name?

Covalent,

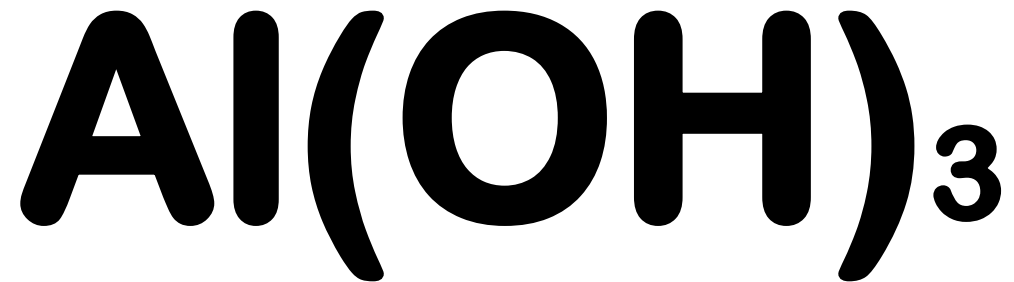
Boron mononitride



Type of bond? Name?

Ionic,

Ammonium fluoride



Type of bond? Name?

Ionic,

Aluminum hydroxide



Type of bond? Name?

Covalent,

Silicon dioxide

**How many valence
electrons does
Rubidium have?**

1 valence electron

**What charge will Rubidium
have when it forms an
ion? What will its name be?**

Rubidium, 1+



Type of bond? Name?

Ionic,

Magnesium carbonate



Type of bond? Name?

Covalent,

Tetrarsenic decoxide



Type of bond? Name?

Ionic,

Lithium nitrate

HCl

Type of bond? Name?

Covalent,

Hydrogen monochloride



Type of bond? Name?

Covalent,

Dinitrogen pentasulfide



Type of bond? Name?

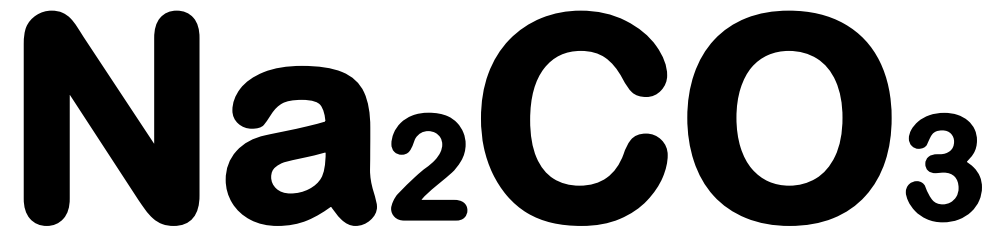
Covalent,
Iodine dichloride



Type of bond? Name?

Ionic,

Iron (III) Chloride



Type of bond? Name?

Ionic,

Sodium carbonate



Type of bond? Name?

Ionic,

Calcium sulfate



Type of bond? Name?

Ionic,

Iron (III) Oxide



Type of bond? Name?

Ionic,

Cobalt (II) nitride