

White Board Practice

Types of Bonds and Nomenclature

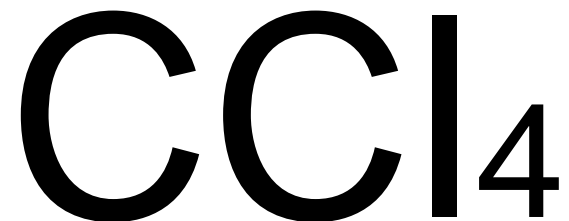
Write down your answer on
the white board and hold it up
when you think that you have
the answer!

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?

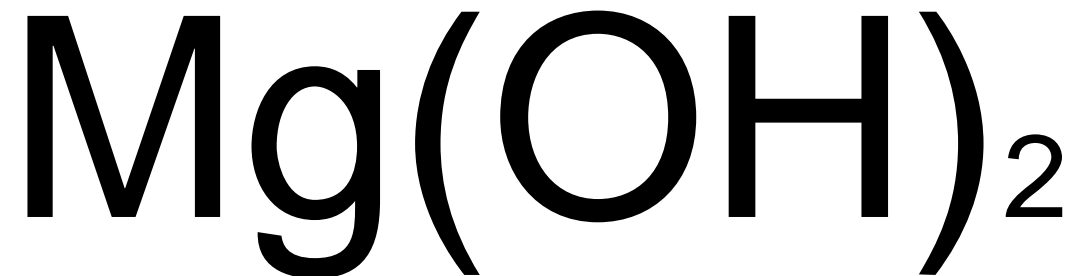
Oxide, 2-



Name and type of bond?

Covalent,

Carbon tetrachloride



Name and type of bond?

Ionic,

Magnesium hydroxide

NaCl

Name and type of bond?

Ionic, sodium chloride



Name and type of bond?

Ionic, sodium fluoride



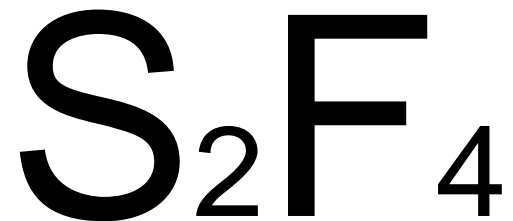
Name and type of bond?

Ionic, barium nitrate



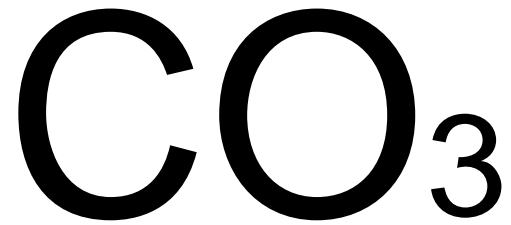
Name and type of bond?

Ionic, lithium sulfate



Name and type of bond?

Covalent,
disulfur tetrafluoride



Name and type of bond?

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?

sulfide, 2-

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

Sulfate and Sulfite



Name and type of bond?

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?

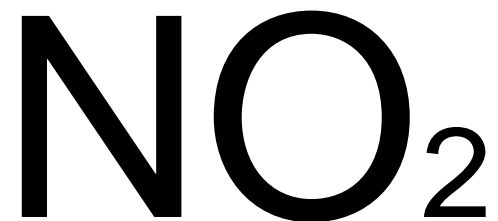
Radium, 2+



Name and type of bond?

Ionic,

Cobalt (III) Fluoride



Name and type of bond?

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?

Nitride, 3-



Name and type of bond?

Ionic, Magnesium chloride



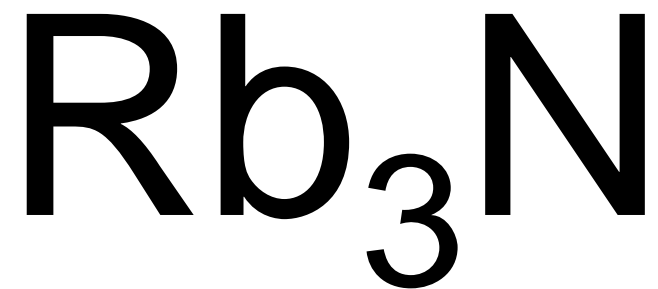
Name and type of bond?

Ionic, aluminum sulfate



Name and type of bond?

Ionic, Silver nitrate



Name and type of bond?

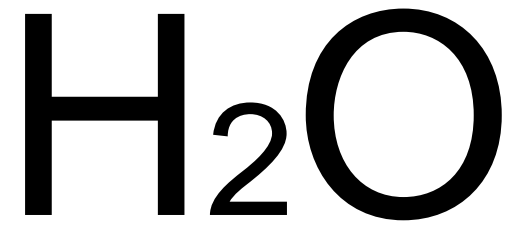
Ionic, Rubidium nitride



Name and type of bond?

Covalent,

Trihydrogen monophosphide



Name and type of bond?

Covalent,

Dihydrogen monoxide



Name and type of bond?

Covalent,

Sulfur hexafluoride



Name and type of bond?

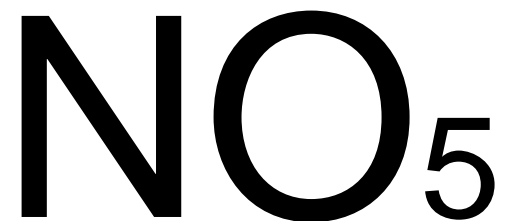
Ionic, sodium nitride

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?

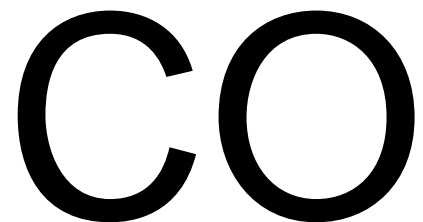
Phosphide, 3-



Name and type of bond?

Covalent,

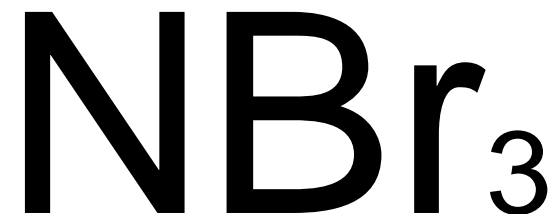
Nitrogen pentoxide



Name and type of bond?

Covalent,

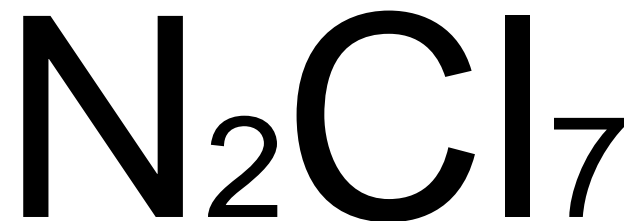
Carbon monoxide



Name and type of bond?

Covalent,

Nitrogen tribromide



Name and type of bond?

Covalent,
dinitrogen heptachloride



Name and type of bond?

Covalent,

Sulfur hexafluoride



Name and type of bond?

Covalent,

Tetraphosphorous decoxide

NaI

Name and type of bond?

Ionic, sodium iodide



Name and type of bond?

Covalent,

Boron mononitride



Name and type of bond?

Ionic, ammonium fluoride



Name and type of bond?

Ionic, aluminum hydroxide



Name and type of bond?

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+



Name and type of bond?

Ionic, Magnesium carbonate



Name and type of bond?

Covalent,

Tetrarsenic decoxide



Name and type of bond?

Ionic, lithium nitrate



Name and type of bond?

Covalent,

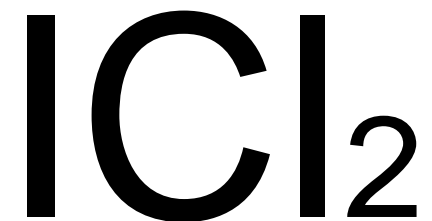
Hydrogen monochloride



Name and type of bond?

Covalent,

Dinitrogen pentasulfide



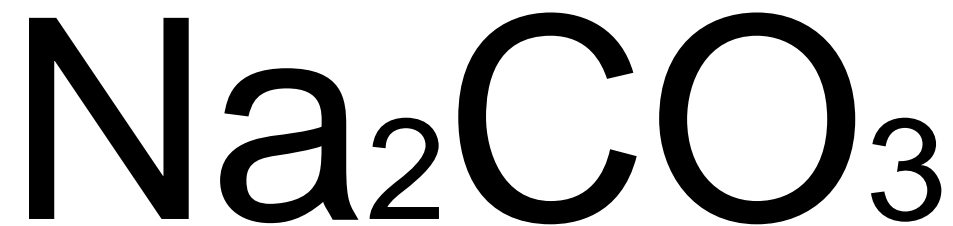
Name and type of bond?

Covalent,
Iodine dichloride



Name and type of bond?

Ionic, Iron (III) Chloride



Name and type of bond?

Ionic, sodium carbonate



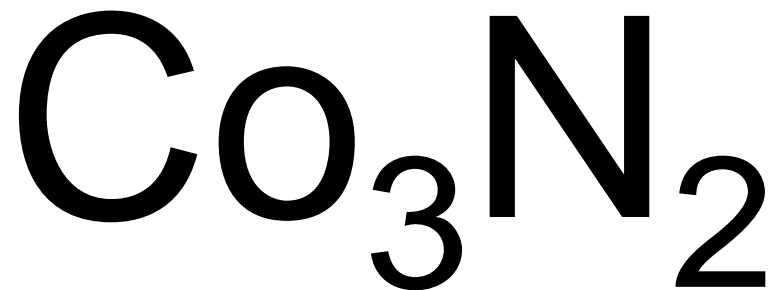
Name and type of bond?

Ionic, calcium sulfate



Name and type of bond?

Ionic, Iron (III) Oxide



Name and type of bond?

Ionic,

Cobalt (II) nitride