# 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-

### CCI<sub>4</sub>

Name and type of bond?

## Covalent, Carbon tetrachloride

## $Mg(OH)_2$

Name and type of bond?

lonic,
Magnesium hydroxide

### NaC

Name and type of bond?

Ionic, sodium chloride

### NaF

Name and type of bond?

Ionic, sodium fluoride

## Ba(NO<sub>3</sub>)<sub>2</sub>

Name and type of bond?

Ionic, barium nitrate

### Li<sub>2</sub>SO<sub>4</sub>

Name and type of bond?

Ionic, lithium sulfate

### S<sub>2</sub>F<sub>4</sub>

Name and type of bond?

Covalent,
disulfur tetrafluoride

### $CO_3$

Name and type of bond?

Covalent, carbon trioxide

# How many valence electrons does Sulfer have?

#### 6 valence electrons

What charge will sulfur have when it forms and 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

## Cs<sub>2</sub>S

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 and ion? What will its name be?

Radium, 2+

### $CoF_3$ Name and type of bond? lonic, Cobalt (III) Fluoride

### $NO_2$

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 and ion? What will its name be?

Nitride, 3-

## MgCI<sub>2</sub>

Name and type of bond?

Ionic, Magnesium chloride

## $Al_2(SO_4)_3$

Name and type of bond?

Ionic, aluminum sulfate

## AgNO<sub>3</sub>

Name and type of bond?

Ionic, Silver nitrate

## Rb<sub>3</sub>N

Name and type of bond?

### Ionic, Rubidium nitride

### $H_3P$

Name and type of bond?

Covalent,
Trihydrogen monophosphide

### $H_2O$

Name and type of bond?

Covalent,
Dihydrogen monoxide

### SF<sub>6</sub>

Name and type of bond?

Covalent,
Sulfer hexafluoride

### NasN

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 and ion? What will its name be?

Phosphide, 3-

### $NO_5$

Name and type of bond?

# Covalent, Nitrogen pentoxide

### CO

Name and type of bond?

## Covalent, Carbon monoxide

### NBr3

Name and type of bond?

# Covalent, Nitrogen tribromide

### N<sub>2</sub>C<sub>17</sub>

Name and type of bond?

Covalent, dinitrogen heptachloride

### SF<sub>6</sub>

Name and type of bond?

Covalent,
Sulfer hexafluoride

#### P<sub>4</sub>O<sub>10</sub>

Name and type of bond?

Covalent,

Tetraphosphorous decoxide

#### Nal

Name and type of bond?

Ionic, sodium iodide

#### BN

Name and type of bond?

Covalent,
Boron mononitride

#### NH<sub>4</sub>F

Name and type of bond?

Ionic, ammonium fluoride

### $Al(OH)_3$

Name and type of bond?

Ionic, aluminum hydroxide

#### SiO<sub>2</sub>

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 and ion? What will its name be?

Rubidium, 1+

### MgCO<sub>3</sub>

Name and type of bond?

Ionic, Magnesium carbonate

#### AS4O10

Name and type of bond?

Covalent,
Tetrarsenic decoxide

#### LiNO<sub>3</sub>

Name and type of bond?

Ionic, lithium nitrate

#### HCI

Name and type of bond?

Covalent,
Hydrogen monochloride

#### $N_2S_5$

Name and type of bond?

Covalent,
Dinitrogen pentasulfide

#### 

Name and type of bond?

Covalent,
lodine dichloride

### FeCl<sub>3</sub> Name and type of bond?

Ionic, Iron (III) Chloride

#### Na<sub>2</sub>CO<sub>3</sub>

Name and type of bond?

Ionic, sodium carbonate

#### CaSO<sub>4</sub>

Name and type of bond?

Ionic, calcium sulfate

## Fe<sub>2</sub>O<sub>3</sub> Name and type of bond?

Ionic, Iron (III) Oxide

### CO<sub>3</sub>N<sub>2</sub> Name and type of bond?

lonic, Cobalt (II) nitride