

### COMPOUNDS FORMED BETWEEN METAL & NON-METALS

- When a metal reacts with a non-metal a \_\_\_\_\_ is produced.
- In these compounds, metals are named first and non-metals \_\_\_\_\_
- When a compound is formed, the non-metal suffix is changed to an “.....”

NO.	METAL	+	NON-METAL	→	COMPOUND
1.	Iron	+	sulfur	→	
2.	Copper	+	chlorine	→	
3.	Magnesium	+	oxygen	→	
4.	Aluminum	+	bromine	→	
5.	Zinc	+	sulfur	→	
6.	Sodium	+	chlorine	→	
7.	Magnesium	+	nitrogen	→	
8.	Iron	+	oxygen	→	
9.	Aluminum	+	iodine	→	
10.	Iron	+	phosphorus	→	
11.	Copper	+	sulfur	→	
12.	Zinc	+	bromine	→	
13.	Sodium	+	oxygen	→	
14.	Aluminum	+	oxygen	→	
15.	Sodium	+	fluorine	→	
16.	Calcium	+	hydrogen	→	
17.	Zinc	+	phosphorous	→	
18.	Sodium	+	sulfur	→	
19.	Aluminum	+	iodine	→	
20.	Potassium	+	astatine	→	

Explain the difference between

Magnesium and oxygen	Magnesium oxide

What is the importance of the **ide** suffix?

## COMPOUNDS FORMED BETWEEN METAL & NON-METALS

- When a metal reacts with a non-metal a **compound** is produced.
- In these compounds, metals are named first and non-metals **second**
- When a compound is formed, the non-metal suffix is changed to an “**ide**”

NO.	METAL	+	NON-METAL	→	COMPOUND
1.	Iron	+	sulfur	→	Iron sulfide
2.	Copper	+	chlorine	→	Copper chloride
3.	Magnesium	+	oxygen	→	Magnesium oxide
4.	Aluminum	+	bromine	→	Aluminum bromide
5.	Zinc	+	sulfur	→	Zinc sulfide
6.	Sodium	+	chlorine	→	Sodium chloride
7.	Magnesium	+	nitrogen	→	Magnesium nitride
8.	Iron	+	oxygen	→	Iron oxide
9.	Aluminum	+	iodine	→	Aluminum iodide
10.	Iron	+	phosphorus	→	Iron phosphide
11.	Copper	+	sulfur	→	Copper sulfide
12.	Zinc	+	bromine	→	Zinc bromide
13.	Sodium	+	oxygen	→	Sodium oxide
14.	Aluminum	+	oxygen	→	Aluminum oxide
15.	Sodium	+	fluorine	→	Sodium fluoride
16.	Calcium	+	hydrogen	→	Calcium hydride
17.	Zinc	+	phosphorous	→	Zinc phosphide
18.	Sodium	+	sulfur	→	Sodium sulfide
19.	Aluminum	+	iodine	→	Aluminum iodide
20.	Potassium	+	astatine	→	Potassium astatide

Explain the difference between

<b>Magnesium and oxygen</b>	<b>Magnesium oxide</b>
Both elements are uncombined.	Both elements are chemically combined.
A mixture is produced.	A compound is produced.

What is the importance of the **ide** suffix?

The **ide** suffix indicates that a compound has been formed.