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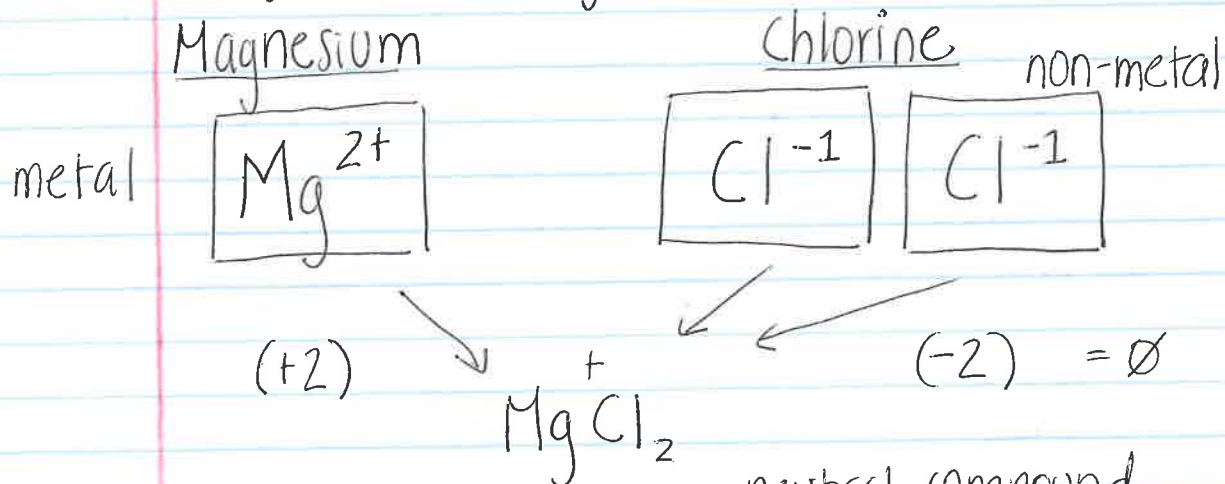
## Combining Ions

Ionic bonds form between metals and non-metals (i.e. between cations + anions).

An element's oxidation number indicates how many electrons are lost or gained when chemical bonding occurs.

Alkali metals are strong electron donors.

Halogens are strong electron acceptors.



Naming Compound

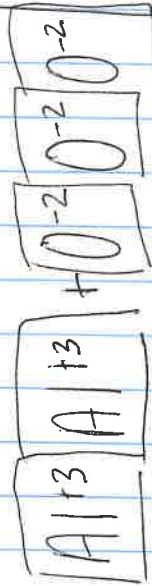
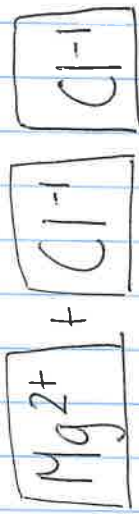
Magnesium Chloride

"ine"  $\rightarrow$  "ide"

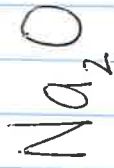
oxygen  $\rightarrow$  "oxide" nitrogen = "nitride"

Atoms form bonds to reach a lower energy state.

Cations + Anions



Chemical Formula



Compound Name

Magnesium Chloride

Aluminum Bromide

Sodium Oxide

Iron(III) Chloride

Aluminum Oxide

Chemical compounds have an overall neutral charge.