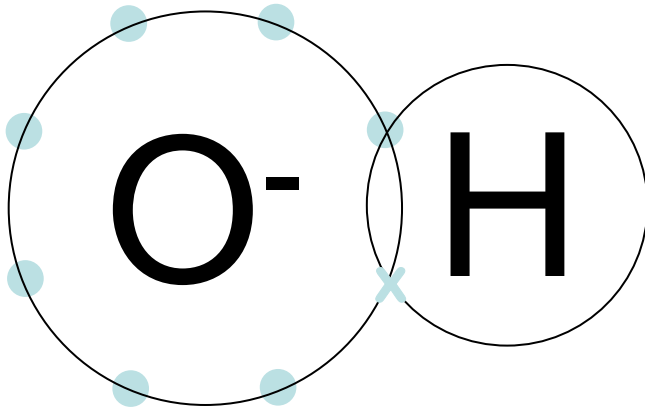


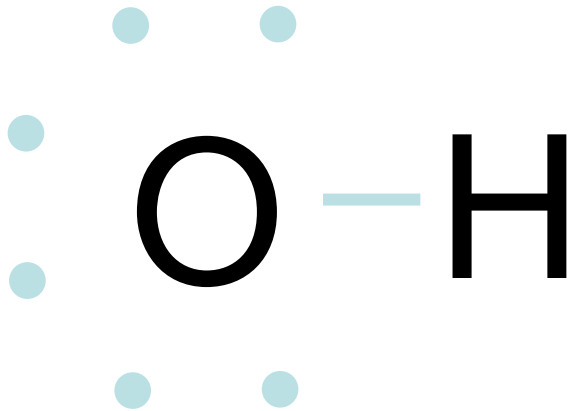
# Polyatomic Ions

**A group of atoms with a charge that act like a single ion when forming ionic bonds with other ions**

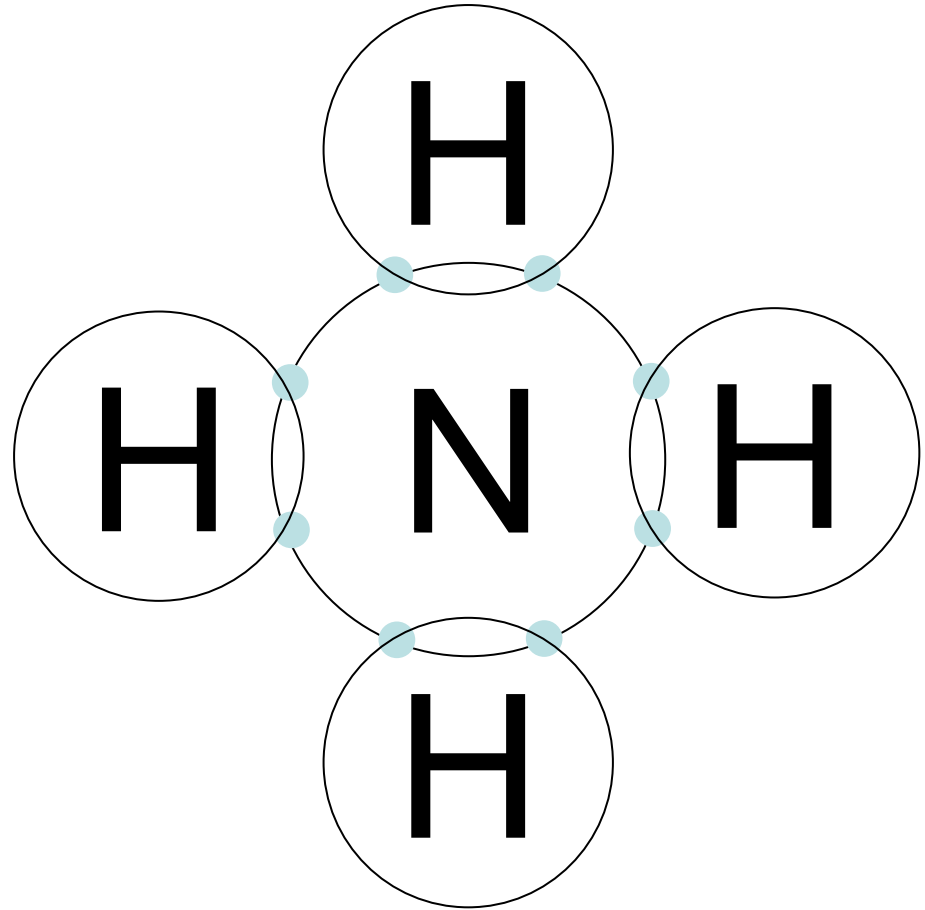


# Polyatomic Ions

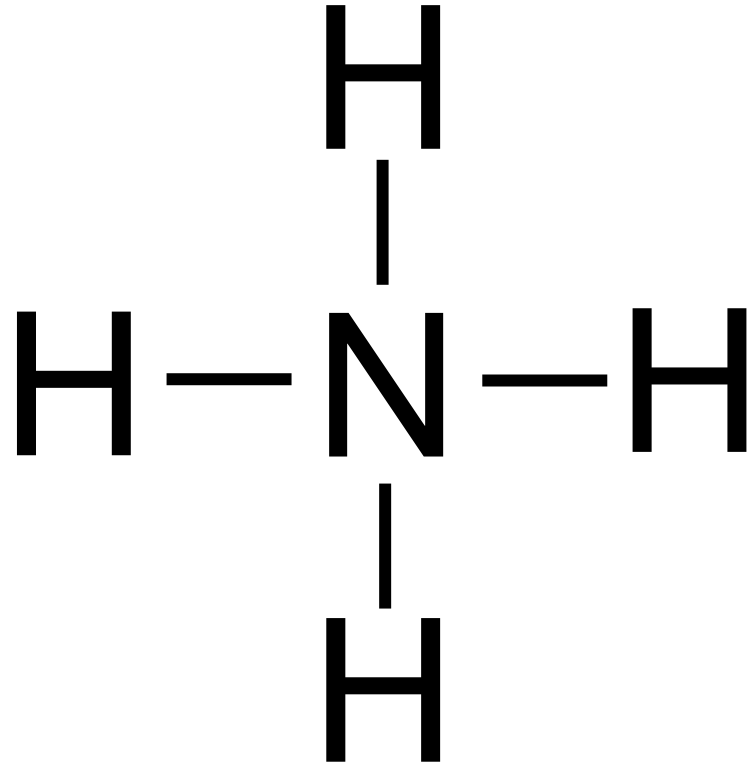
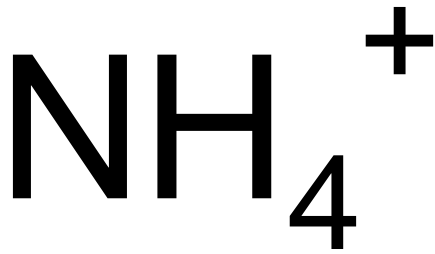
A group of atoms with a charge that act like a single ion when forming ionic bonds with other ions



# Ammonium



# Ammonium



# Cyanide



# Ions with Oxygen

Carbonate  $\text{CO}_3^{2-}$

Nitrate  $\text{NO}_3^-$

Nitrite  $\text{NO}_2^-$

Phosphate  $\text{PO}_4^{3-}$

Sulfate  $\text{SO}_4^{2-}$

Sulfite  $\text{SO}_3^{2-}$

Chlorate  $\text{ClO}_3^-$

Chromate  $\text{CrO}_4^{2-}$

# What's my (ionic) name?

- $\text{Ca}_3(\text{PO}_4)_2$
- $\text{Fe}(\text{OH})_3$
- KCN
- $(\text{NH}_4)\text{NO}_3$
- $\text{Li}_3(\text{PO}_4)$
- $\text{Li}_2(\text{CO}_3)$
- Calcium phosphate
- Iron(III) hydroxide
- Potassium cyanide
- Ammonium nitrate
- Lithium phosphate
- Lithium carbonate