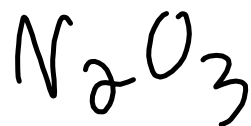
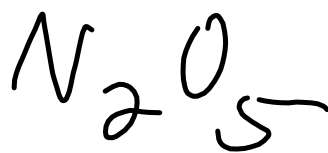
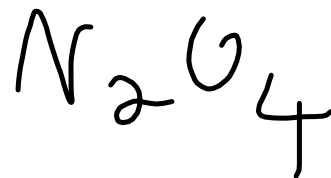
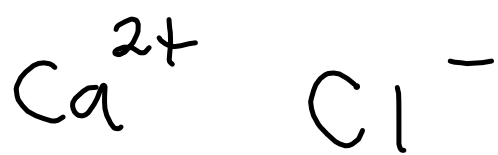


CaCl_2 calcium chloride



1 - mono-	8 - octa-
2 - di-	9 - nona-
3 - tri-	10 - deca-
4 - tetra	
5 - penta-	
6 - hexa-	
7 - hepta-	

NO nitrogen monoxide

NO_2 nitrogen dioxide

N_2O dinitrogen monoxide

N_2O_3 dinitrogen trioxide

N_2O_4 dinitrogen tetroxide

N_2O_5 dinitrogen pentoxide

PbCl_2

PbCl_4

ACIDS

1. Binary Acids
2. Ternary Acids

Binary Acids

Hydrogen and one other element (usually a non-metal)

only named as acids when dissolved in H_2O

hydro _____ ic acid

HF hydrofluoric acid

HCl hydrochloric acid

HBr hydrobromic acid

HI hydroiodic acid

H_2S hydrosulfuric acid

Ternary Acids

SO_4^{2-} sulfate ion

H_2SO_4 sulfuric acid

SO_3^{2-} sulfite ion

H_2SO_3 sulfurous acid

-ate ion \longleftrightarrow -ic acid

-ite ion \longleftrightarrow -ous acid

Fill in the missing information in the following table:

NAME	FORMULA
carbonic acid	H_2CO_3
nitrous acid	HNO_2
phosphoric acid	H_3PO_4
nitric acid	HNO_3
hydrochloric acid	HCl

carbonate ion



H_2CO_3 carbonic acid

HNO_2 nitrous acid

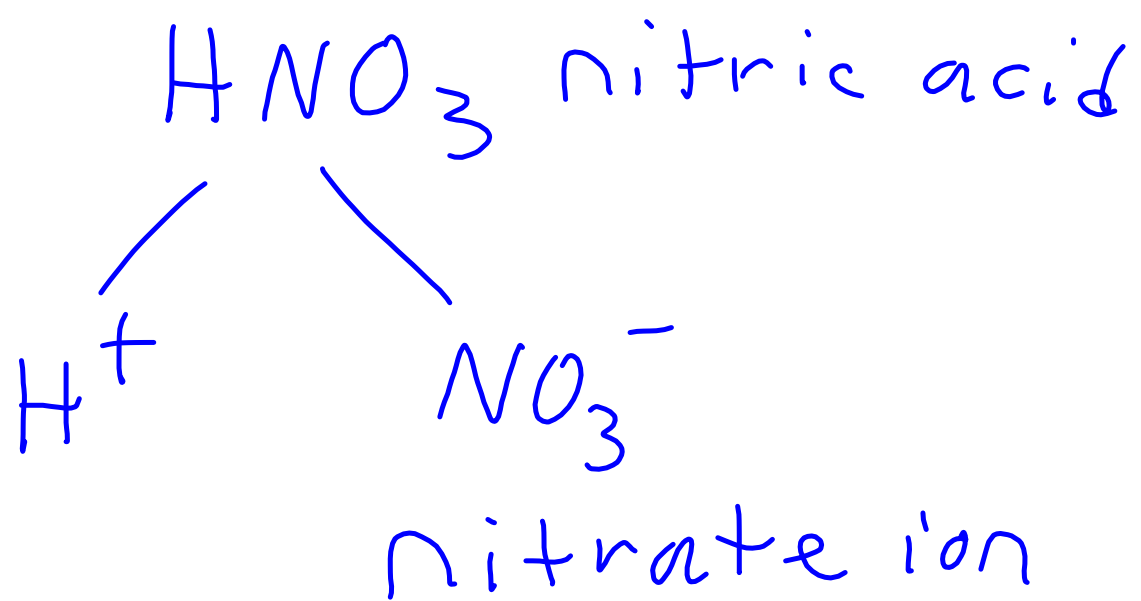


Phosphonate ion

↓ minor spelling
change

phosphate ion PO_4^{3-}

phosphoric acid H_3PO_4



Acid Anions & Acid Salts

SO_4^{2-}
sulfate
ion

HSO_4^-
hydrogen
sulfate
ion

bisulfate ion

H_2SO_4
sulfuric
acid

SO_3^{2-}
sulfite
ion

HSO_3^-
hydrogen
sulfite
ion

bisulfite ion

H_2SO_3
sulfurous
acid

PO_4^{3-} phosphate ion

HPO_4^{2-} monohydrogen
phosphate ion
biphosphate ion

H_2PO_4^- dihydrogen
phosphate ion

H_3PO_4 phosphoric acid

Write formulas for
the following acid
salts.

Sodium bicarbonate

Calcium dihydrogen phosphate

magnesium bisulfide

aluminum biphosphate

