# Naming of Acids

## awion - ide

### acid

-ic acid hydrochloric acid hydrofluoric acid

hydrobrowic seid hy drosulfuncaud

## Oxyacids

-ale

-ic acid Soy2-; sulfate 42804 sulfurie acrid Poy3-; phosphale H3Poy phosphone acid Cloy ; perchlorate HCROy perchloric acid HNO3 nitre acid No3-; whate Co32-; corbonale Hzcoz carbonic acid

HCL

H F

#Br

H<sub>2</sub>S

- ite

\_ ous acid

No, white

HNO2 withous acid

PO33-; phosphite H3PO3 phosphorous acid SO32-; Sulfite H2SO3 Sulfurous acid

Base:

NH4+ : Ammonium

NH3: Ammonia

#### Chemical Keachions

#### Balancing Chemical Keachions

write a balanced equation for the reaction between solid cobalt (111) oxide and solid carbon to produce solid cobalt and corbon dioxide gas

1. Write a skeletal unbalanced equation

2. Balance atoms Hat occur in more complex substances first
Begin with "0"

2 (0203 (s) + (cs) -> (o (s) + 3 co2 (g)

3. Balance about that occur as bree element

Balance Co:

 $2 C_{02} O_3(s) + C(s) \rightarrow 4 C_0(s) + 3 C_{02}(g)$ Balance C  $2 C_{0}, O_{2}(s) + 3 C(s) \rightarrow 4 C_{0}(s) + 3 C_{02}(g)$ 

4. Clear fractional coefficients
ula

5. Check

Write a balanced equation for the combustion of gascous but one (C4 H10), in which it combines with gascous oxygen to gascous carbon chroxicle and gascous water

1. Cy 410 (g) + 02 (g) -> Co2 (g) + 420 (g)

2. Begin with "c"

C4 410 (2) + 02 (3) -> 4 (02 (3) + H20 (3)
Balance H:

Cy 40 (g) + 02 (g) -> 4 (02 (g) + 5420 (g)

3. Balance "O"

C4410(9) + 13 02(9) -> 4co2(9) + 5420(9)

4. Clear Fraction Cuultiply with 2)

2C4410(g) + 1302(g) -> 8(02(g) + 10 H20(g) Write a balanced equation for the reaction of aqueous strontium chlorida and aqueous littium phosphate to form solid strontium phosphate and aqueous littium electrical

1. Write skeletæl equation

Srce2 (aq) + Li3 Poy (aq) -> Sr3(Poy)2(8)+Lill(aq)

2. Balance cations

35rC(2 (aq) + Liz POy (aq) -> Srz (POy)2(s) +3Lice (aq)

3. Balance amons

3 Sr az cog) + 21i3 Poy - > Sr3 (Poy) 2(s) + 3 lile cag)

Balany C1

35-C(2 (ag) + 21:3 POy (ag) -> Sr3 (POy)2+6 Lice (ag)