```
Acid + Bases
                    taste bitter
s taste sour
                    feel slippery
 turn Litmus Red
                   turns Litmus Blue!
 H+ ions in
 water (Arrhenius)
                  Form OHT in wate.
                     (Asshmins)
                   H = /p+, Ono, le-
Acids
                       (H= 1p+, Ono, 0e-
                  Harasi -> Hrasi + arasi
 Monoprotic:)
  1H+ ion/molerale
                HNO3 (as) -> H (as) + NO3(as)
             H(2H3O2 (01) = H(2) + (2H3O2)
            acetic acid
           H2SO + rogs > 2H rogs + SO + rogs
sulfurie acid sulfate
Diprohie:
             H3POY (GE) -> 3H reg) + POY (GE)
phosphase
Triprohic:
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9-28-11

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Polyprotic
              >1H+/molerule.
Strong Acids
 Huazza arrid
               Htasi + Chasi.
                100% Imization
Weak Acrols
 HFrasi hydrofluotik acid
                Hragi + Fragi
WHC2H3O21031
                 H == + (2H30= 102) 5%
 acetic acid
                <100% I onization
 Strong Bases
                     100% Imigation
   Na OHreg - Na rap + OHreg)
  Ba (OH) 2 (ag) - Ba (ag) + 20H (ag)
 Weak Baxes
 - tend to react us HeO to form OH" ions.
  ex: NH3 + H20 = NH ing + OH rec
```

HCross Hydrodolonic HNOsrass nitric acid

HBroass Hydrobranic H2SO 4000 Sulfuric acid

HIrass Hydroiodic Acid

HCro4000 perchlonic acid

5 Strong Bases

NaOH sodium hydrovide Ba(OH) 2 barium hydrovide LiOH lithium hydrovide Sr(OH) 2 strontium hydrovide KOH potassium hydrovide

Neutralization Reactions Acids + Bases -> Salls + water ex: HChan + NaOHan - Nach (ag) + H2O(A) HT at Not OH - Notat H+OH-HNO31001 + LIOH(05) -> LINO31001 + H20(1) H+NO - Li+OH - Li+NO - H+OH-Bicarbonato + Carbonato are Basic ion! HO'_ (0's-HU(199) + NaH(1/3 (199) -> NaU(199) + HITE Nat Hos - Nata - H+ Hog-H2(03 - H20(1) + (02(9)) Carbonic acid

2H(ag) + 50 2- + 2K(ag) + (03 (ag) -> 2K(ag) + 504

2H+(02) + (02-102) -> H2O(1) + (0213)

NET-IONIC