## Strong Acids

$$H_2SO_{4(aq)} \longrightarrow 2H_{6q)}^{+} + SO_{4(aq)}^{2-}$$
0.100 M
0.200 M
 $H_2SO_{4(aq)} \longrightarrow 2H_2O_{60} \longrightarrow 2H_3O_{6q}^{+} + SO_{4(aq)}^{2-}$ 
0.200 M
0.200 M
0.200 M

#### Weak Acids

$$HCN_{(aq)} + H_2Q_{a} = CN_{(aq)} + H_3Q_{(aq)}$$

$$K_a = [CN-][H_3Q^{\dagger}], [CN-] = [H_3Q^{\dagger}]$$

$$[HCN]$$

$$K_a = [H_3Q^{\dagger}]^2$$

$$[HCN]$$

### Strong Bases

#### Weak Bases

# Worksheet