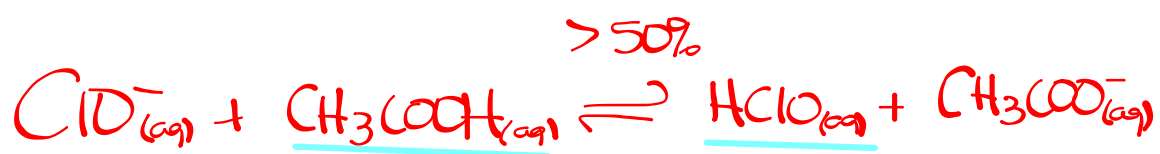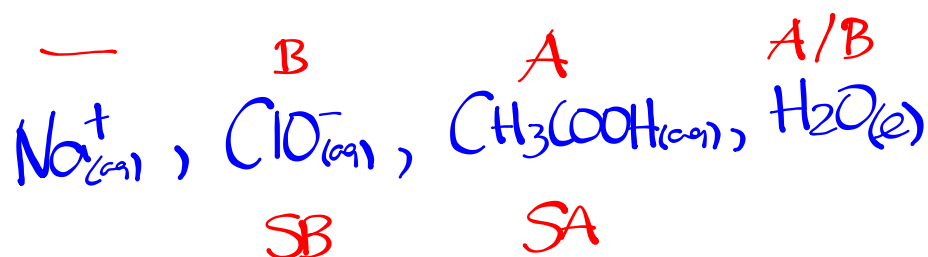# Predicting Acid-Base Reactions

1. List all entities (ions, atoms, or molecules) initially present.

2. Identify all possible acids and bases, using Bronsted-Lowry definition.

3. Identify the strongest acid and strongest base, using table of acids and bases.

4. Transfer one proton from the acid to the base and predict the conjugate acid and conjugate base as products.

5. Predict the position of the equilibrium.

③ sodium hypochlorite and vinegar

$NaClO_{(aq)}$ and $CH_3COOH_{(aq)}$

$$Na^+_{(aq)} , \underset{SB}{\overset{B}{ClO^-_{(aq)}}} , \underset{SA}{\overset{A}{CH_3COOH_{(aq)}}}, \overset{A/B}{H_2O_{(\ell)}}$$

$$ClO^-_{(aq)} + CH_3COOH_{(aq)} \overset{>50\%}{\rightleftharpoons} HClO_{(aq)} + CH_3COO^-_{(aq)}$$

Homework

Predicting Acid-Base Equilibria

Worksheet