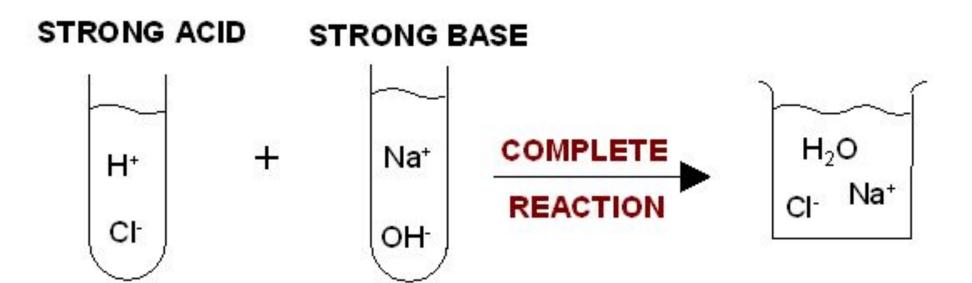
#### Acid Base Chemistry

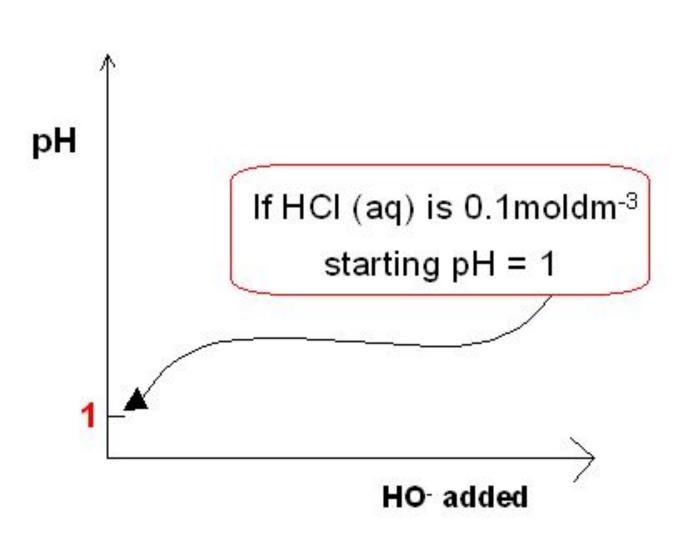
- 1. Foundation knowledge
- 2. The pH scale
- The pH of Water
- 4. Acids
- 5. Bases
- 6. Acid base titrations
  - a. pH curves and suitable indicators
  - b. Using pH curves to find K<sub>a</sub> values
- 7. Relative acidity and basicity competition for H+

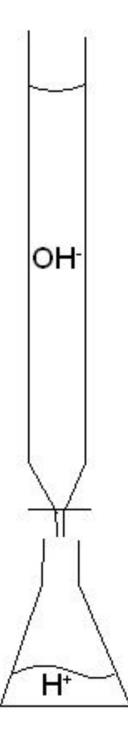


#### What reactions occur between acids and bases?

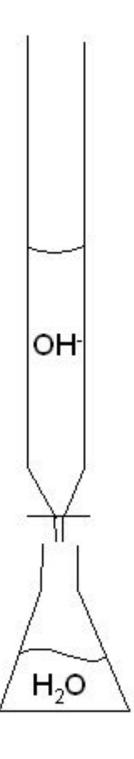


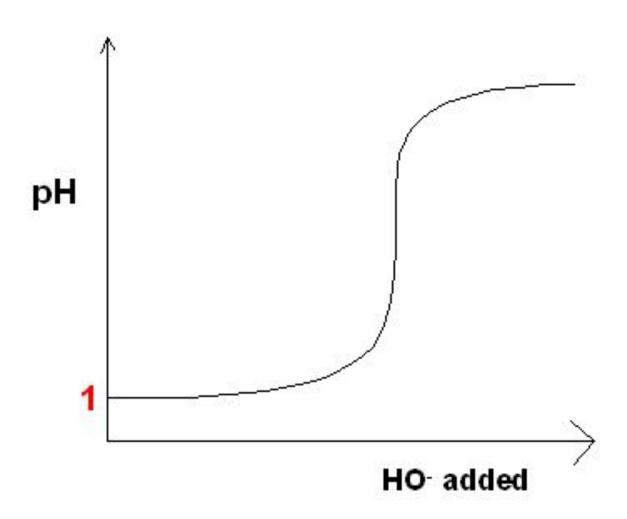
## STRONG ACID + STRONG BASE рΗ OH HO-added

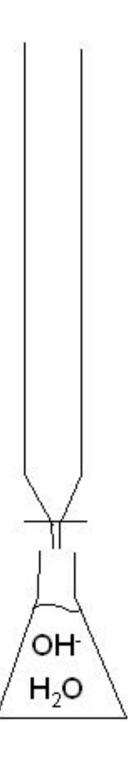


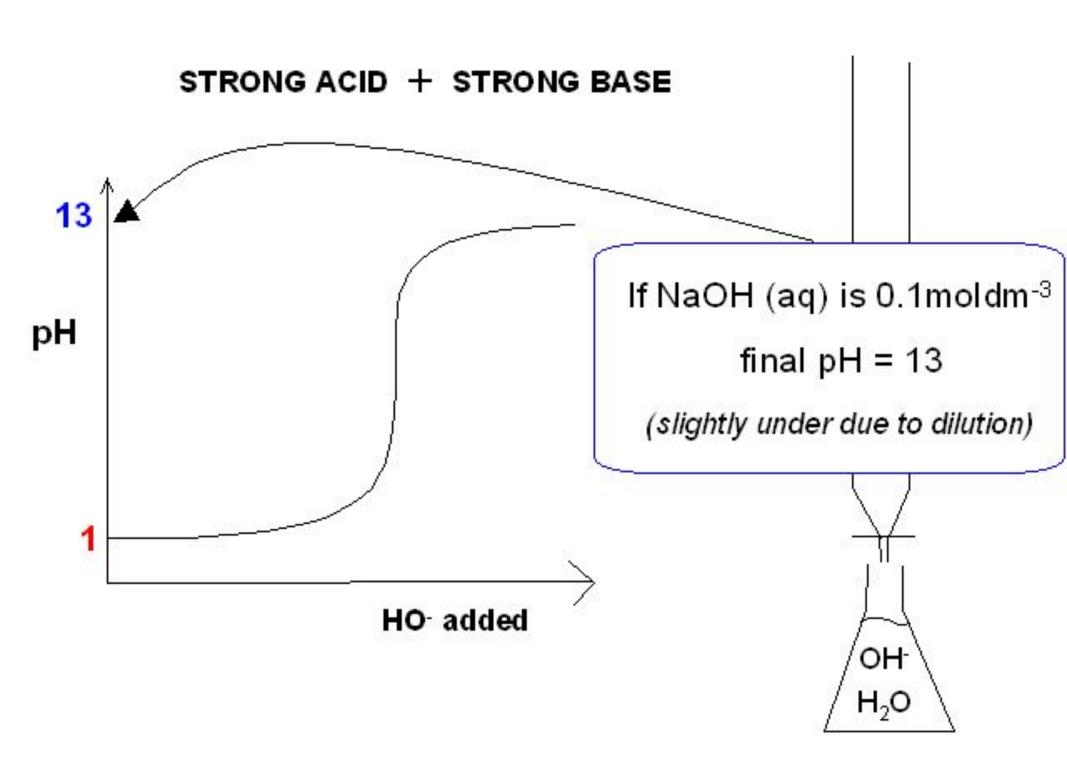


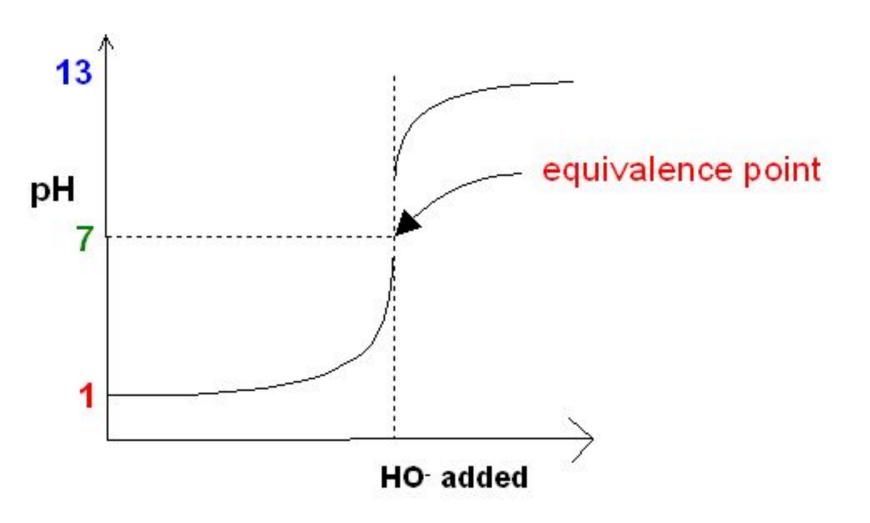
# STRONG ACID + STRONG BASE рΗ HO-added

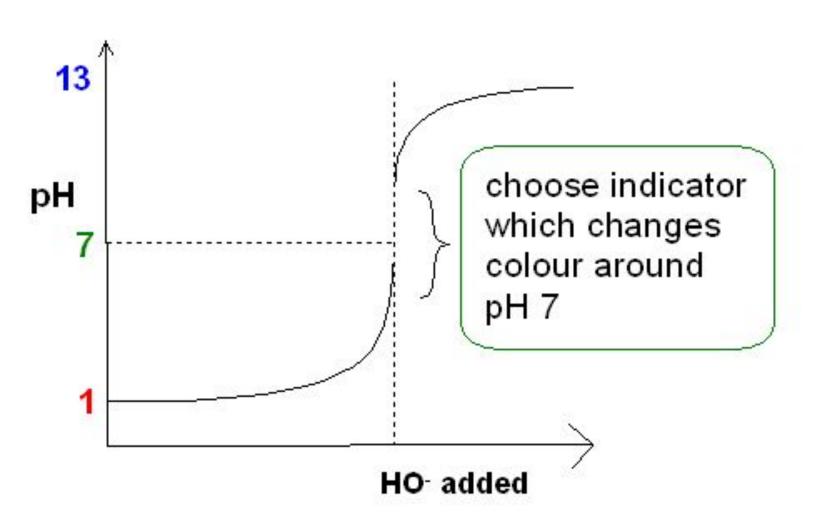




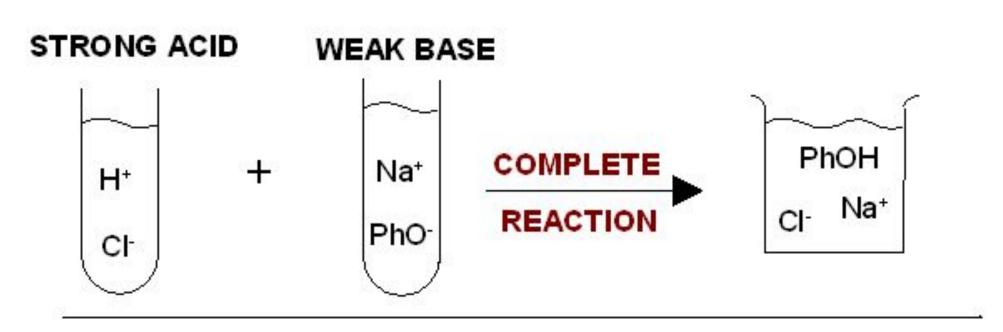






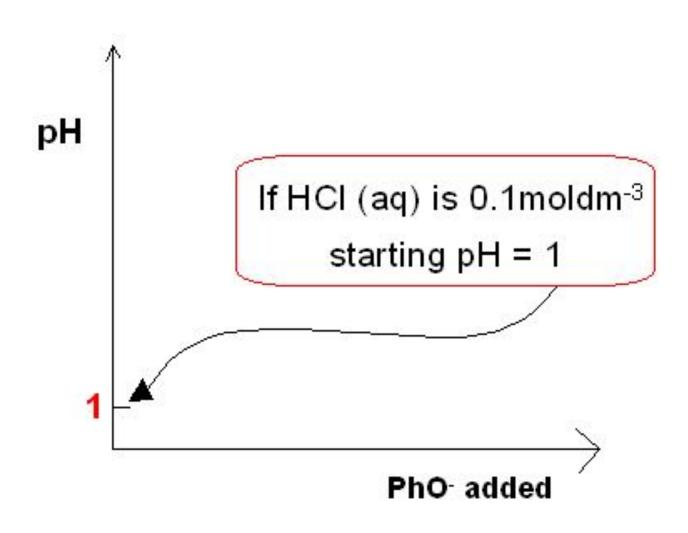


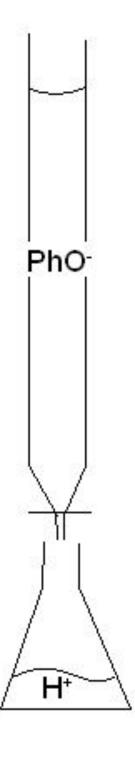
#### What reactions occur between acids and bases?



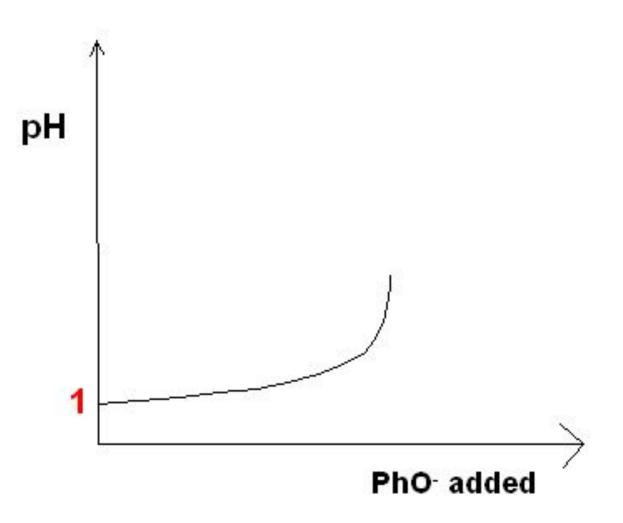
## STRONG ACID + WEAK BASE рΗ PhO-PhO added

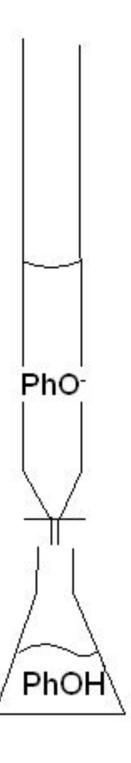
#### STRONG ACID + WEAK BASE



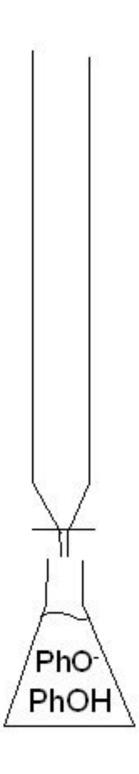


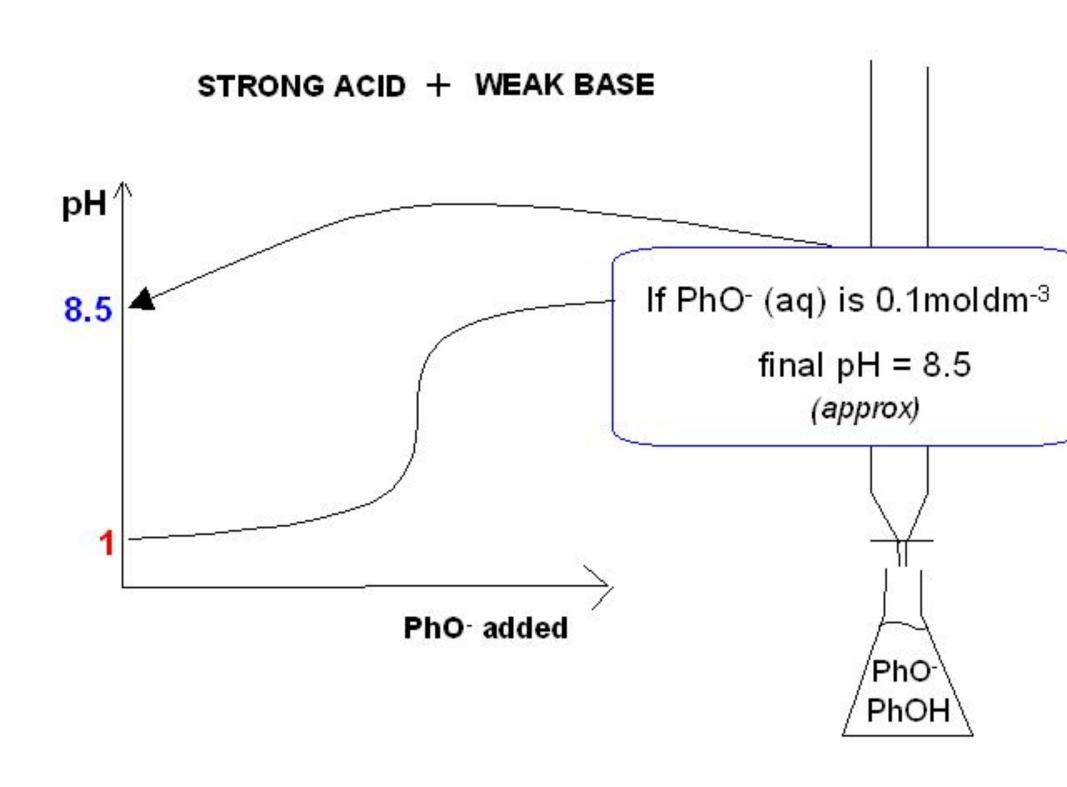
#### STRONG ACID + WEAK BASE



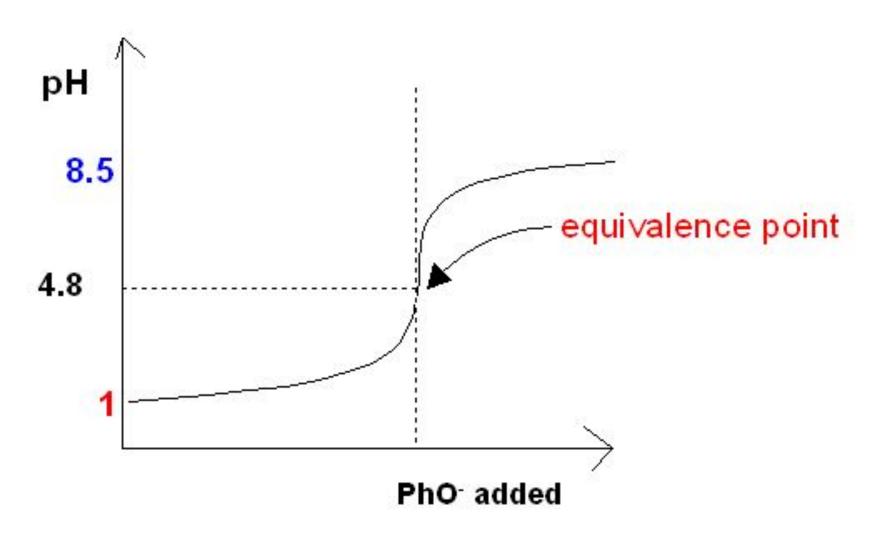


# STRONG ACID + WEAK BASE рΗ PhO-added

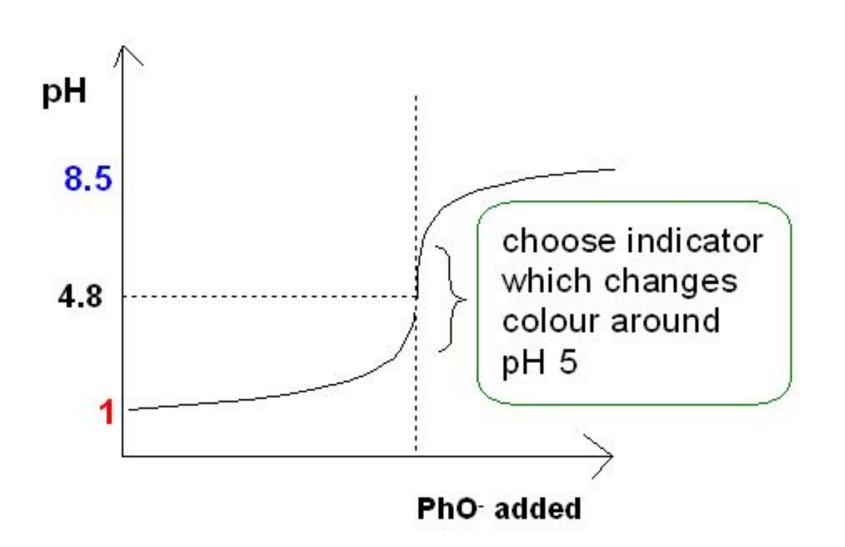




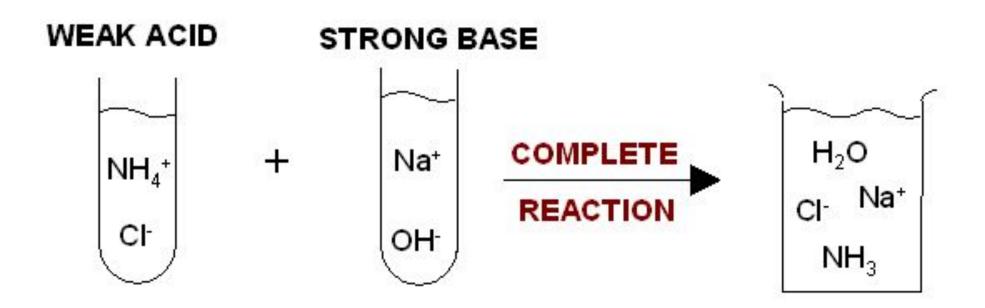
#### STRONG ACID + WEAK BASE

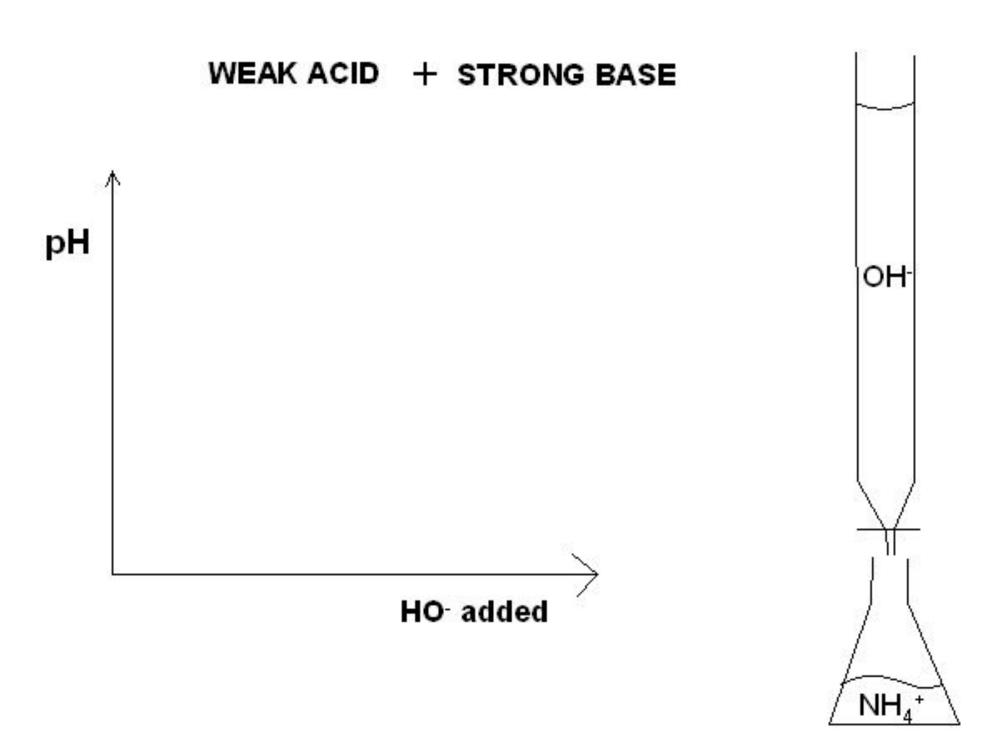


#### STRONG ACID + WEAK BASE

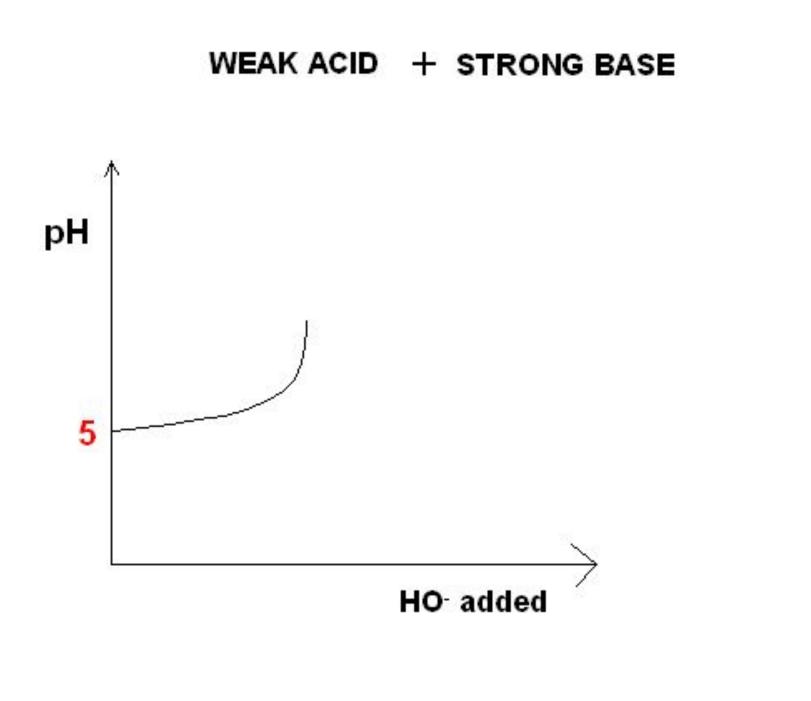


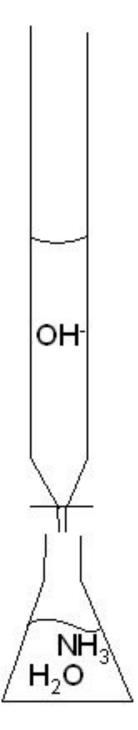
#### What reactions occur between acids and bases?



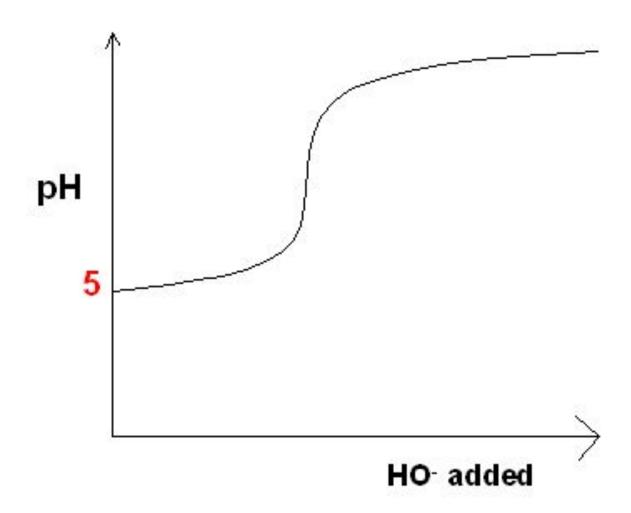


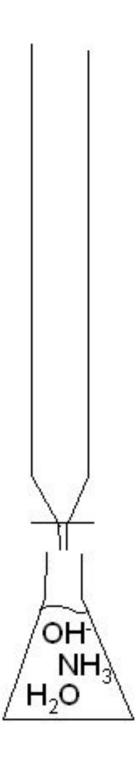
### WEAK ACID + STRONG BASE pН OH-If NH<sub>4</sub>Cl (aq) is 0.1moldm<sup>-3</sup> starting pH = 5.15 HO- added NH

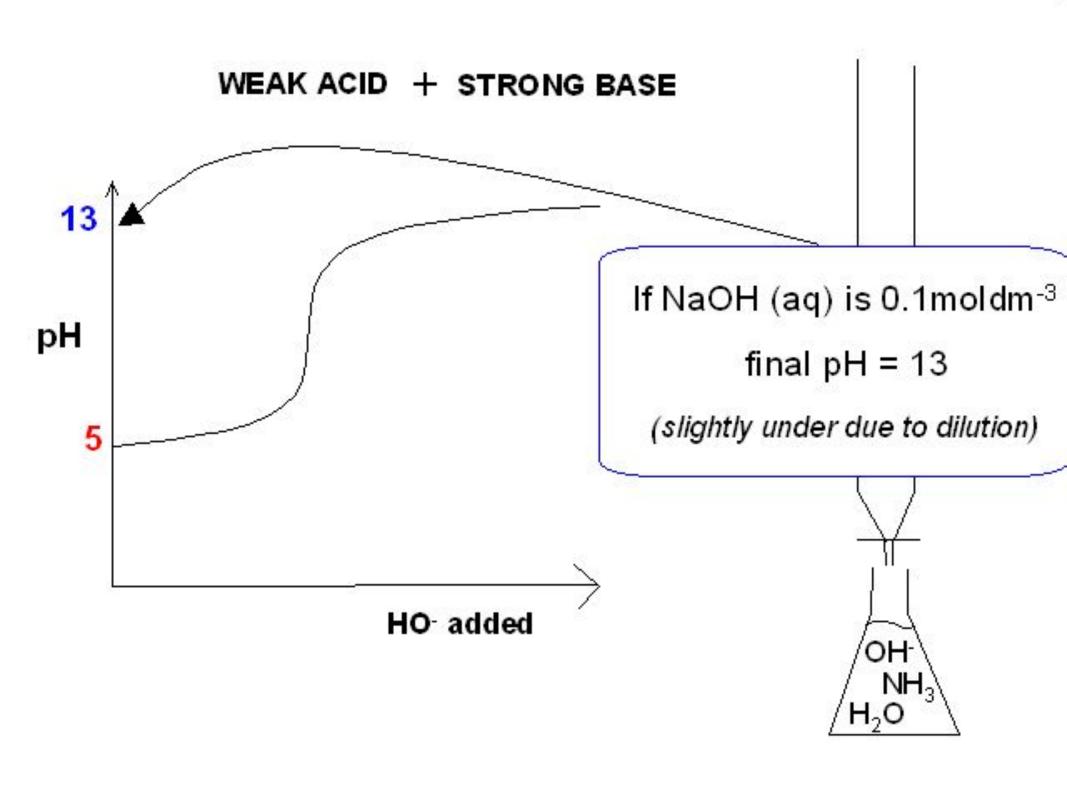




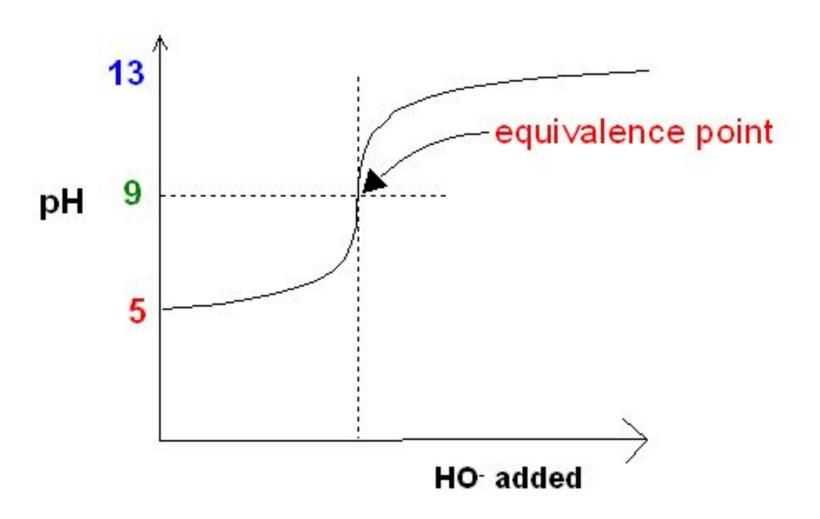
#### WEAK ACID + STRONG BASE



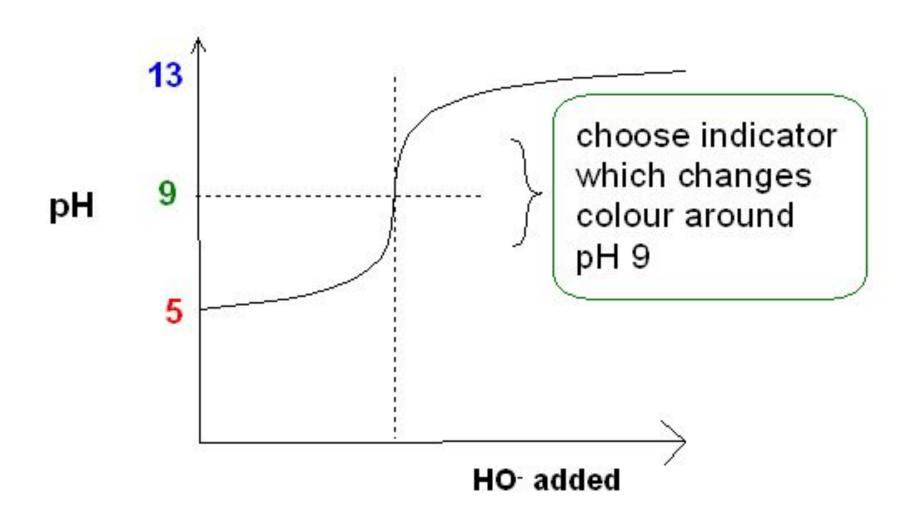




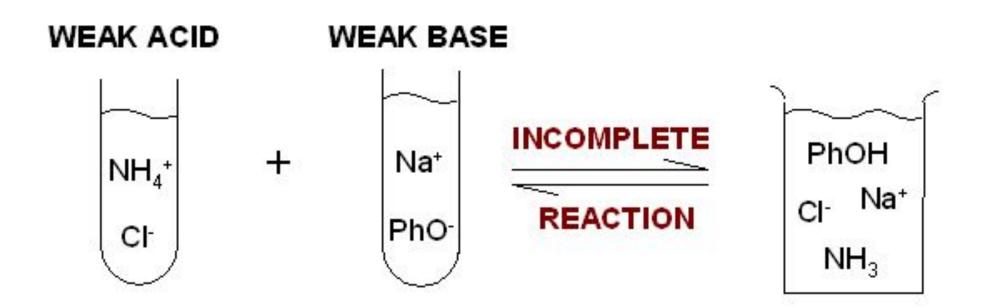
#### WEAK ACID + STRONG BASE

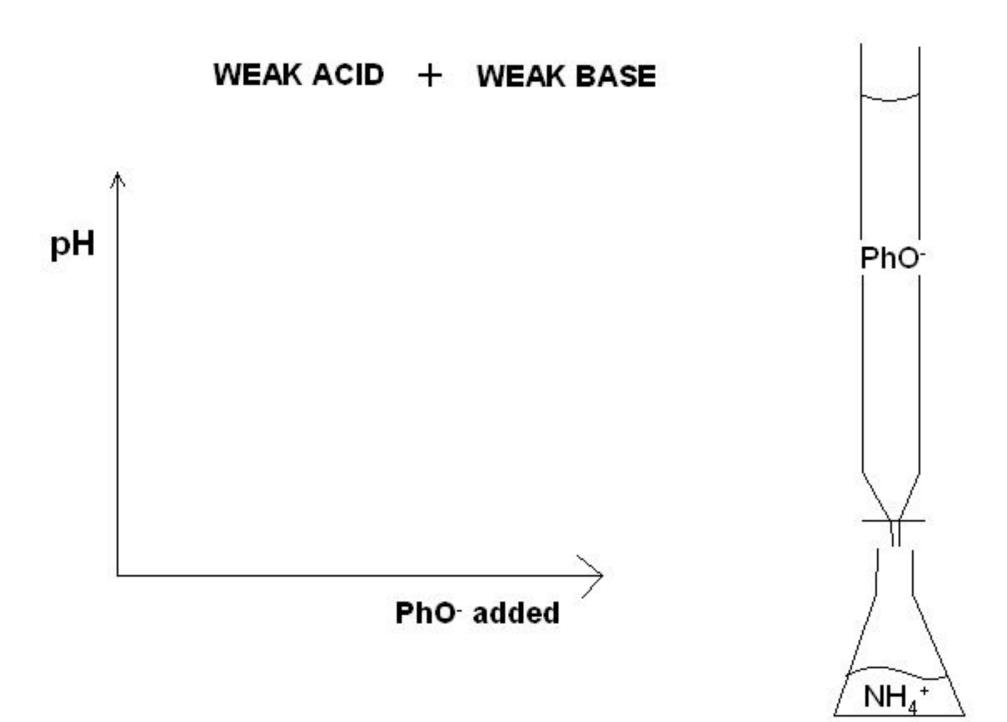


#### WEAK ACID + STRONG BASE

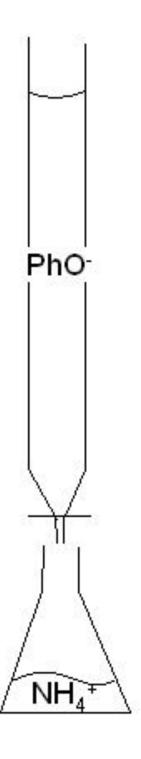


#### What reactions occur between acids and bases?

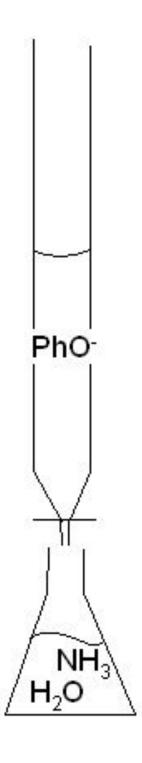


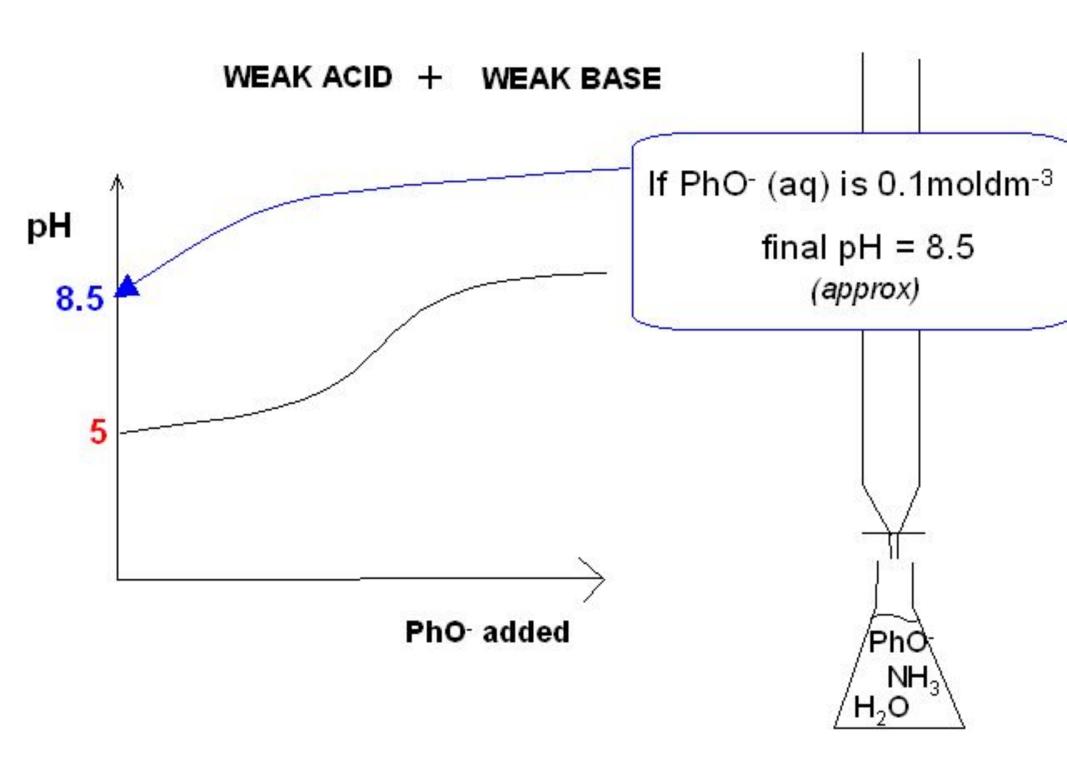


### WEAK ACID + WEAK BASE рΗ If NH<sub>4</sub>Cl (aq) is 0.1moldm<sup>-3</sup> starting pH = 5.1 5 PhO-added

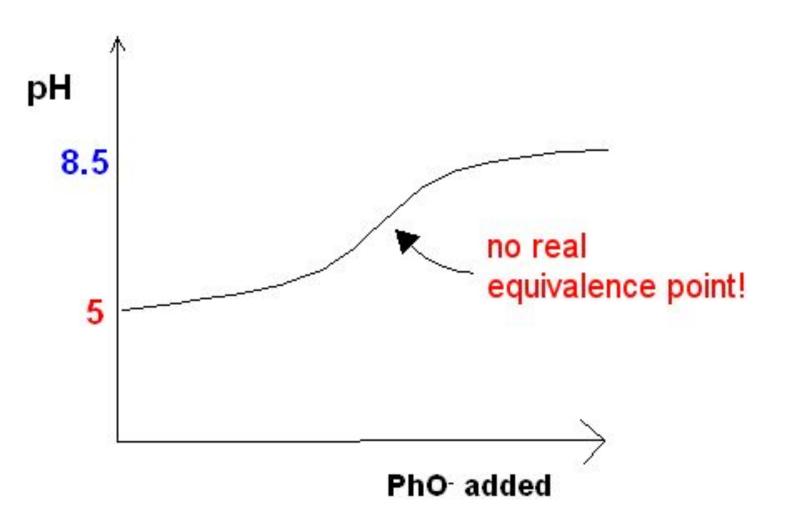


### WEAK ACID + WEAK BASE рΗ 5 PhO added





#### WEAK ACID + WEAK BASE



#### WEAK ACID + WEAK BASE

