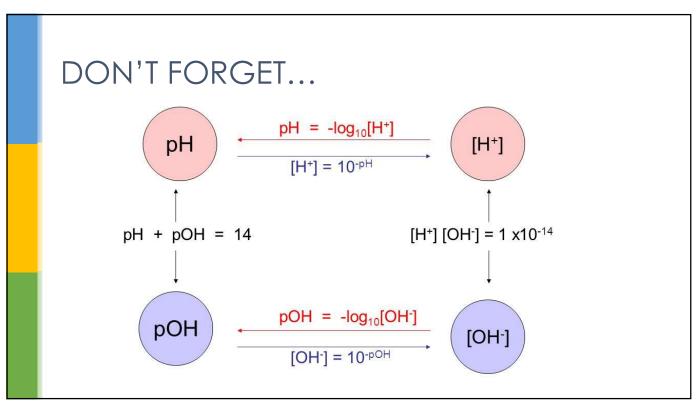


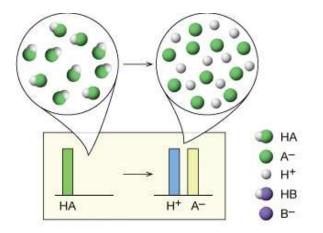
UNIT 4 CH40S WIEBE

1



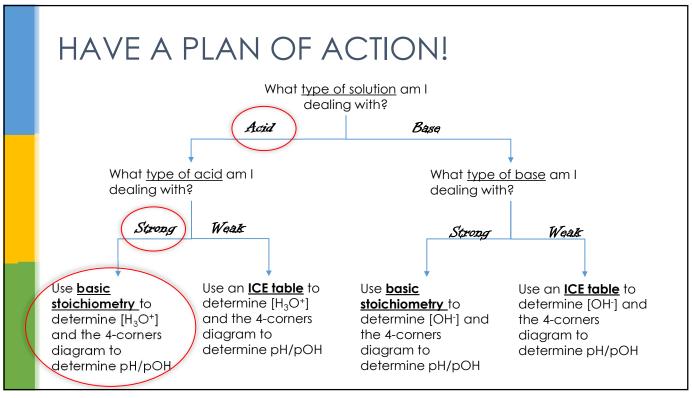
## STRONG ACIDS

- Ionize completely in water therefore not equilibriums.
- Use B/L or dissociation equation and stoichiometry



 $[\mathbf{H_3O^+}] = [\mathbf{ACID}]$ 

3



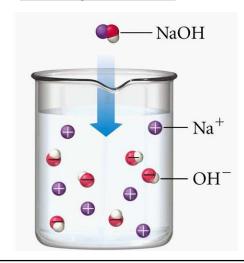
## FOR EXAMPLE

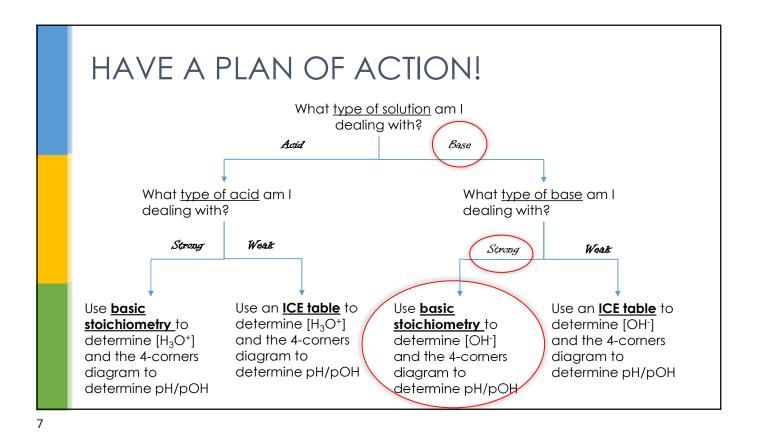
Nitric acid is used in the production of agricultural fertilizers, explosives such as TNT, and dyes. Determine pH of a 0.25 M solution of  $\rm HNO_3$ .

5

## STRONG BASES

- Soluble hydroxides → dissociate completely in water
- Not equilibriums...use dissociation equations and stoichiometry





## FOR EXAMPLE

Calcium hydroxide is an important component of cement, plasters, and mortars. It is also sometimes used to make your pickles extra crunchy! Calculate the pH of a 0.125 M Ca(OH)<sub>2</sub> solution.