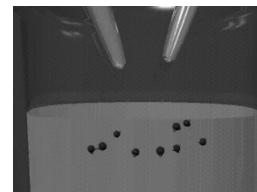


## Chem 106: Class/ Lab Week 12

Sign in / Pick up Papers  
 Select a partner for titration experiment, pp. 85-86:  
*Complete 2 titration trials of acetic acid in an unknown vinegar sample within the first 90 minutes of lab*

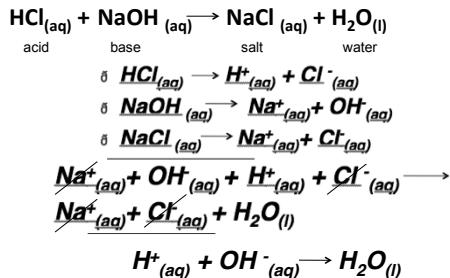
**Exam 2: Last 90 minutes of lab**

## Neutralization Reactions



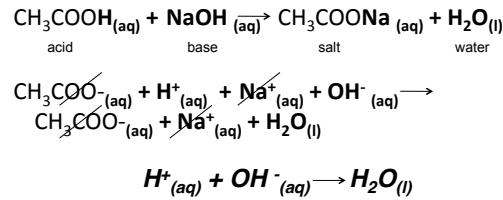
### Aqueous Reactions: Neutralization

#### Net Ionic Equations

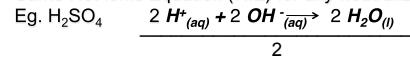


### Aqueous Reactions: Neutralization

#### Net Ionic Equations



Same Net Ionic Equation (NIE) for any neutralization



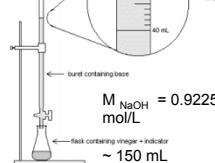
2

## Neutralizations / Titrations

Chem 106 titration: phenolphthalein indicator

<http://chemconnections.org/general/chem120/solutions-mixes.106.html>

### Acid-Base Titration & Indicators



- Provide Dr. R. with a 250 mL Erlenmeyer flask with your last names on it.
- Check out a buret & 20. mL pipet.
- Refer to pp. 85-86: write down unk. #

Volume of Vinegar (mL)	End 1	End 2	Average
Final buret reading (mL)			
Initial buret reading (mL)			
Volume of NaOH (mL used)			
Molarity NaOH (M)			0.9225 mol/L
Molarity (M) (molar)			
Mass of acetic acid (grams)			
% acetic acid			

## Chem 106: Class Week 12

Titration of Vinegar: (Data, pg. 86) *Dr. R. to sign today*  
Post Lab Questions: Aqueous Solutions  
(Complete Course/ Lab Manual pp. 86-87)  
*Due Week 13*

### ***Turn in Today***

- 1) Fluid Exchange  
(Course/ Lab Manual pp. 89-90)
- 2) Acid-Base Equilibrium Experiment  
(Course/ Lab Manual pp. 79-82)

## Chem 106: Class/ Lab

### Week 12

*Exam 2*  
*Pick up Scantron, and Calculator if needed*

*Can use:* 2 pages handwritten notes, which are to be turned in, plus Periodic Table allowed

*After Turning in Exam:*  
*Pick up Global Warming Handout Questions*  
*plus small Scantron*  
*(Due next week)*