Chemistry II AP 2017-2018
Dr. Casagrande (Office 186P)
Room 186, Period 8 (Lab Thursday Periods 8-10)

Syllabus #25-26 February 26 – March 9, 2018
LCasagrande@westfieldnjk12.org
www.doccasagrande.net

Monday, February 26, 2018

- **TEST: Chapter 15—Acids and Bases**
- **Homework 16-1:** Problems pg. 722 #2, 4, 5, 6

Tuesday, February 27, 2018

- **Substitute teacher- Dr. Casagrande is at Chemistry Lab Safety Training**
- HW #16-1 will be checked and discussed on Wed.
- Chap 16.3: POGIL on Buffers-Try to finish Model 1 in class (questions #1—8)
- **Homework #16-2:** POGIL on Buffers—finish Model 1(questions #1-8) and do 1st page of Model 2 (questions #9-12)

Wednesday, February 28, 2018 (Room 382)

- Chap 16.3(continued): Finish POGIL on Buffers (finish for HW if don't finish in class)
- **HW #16-3:** p. 722 #10, 11*, 14*, 17*, 19, 20
  Some Hints are given below:
  * For #11 and 14: First, determine the identity of the weak acid and the weak base in the buffer. Second, write the equilibrium acid ionization equation, use an ICE chart and K_a expression to solve for pH.
  * For #17, When HCl, is added, write the neutralization reaction and use an ICF chart. Then, write equilibrium acid ionization reaction, set up an ICE chart and transfer "final" values into ICE chart. Use K_a expression.

Thursday, March 1, 2018

- LAB- Making 3 Buffers, Buffer Capacity, Indicators (Until ~4:00 pm)
- **HW # 16-4:** p. 722 #13, 16, 28, 37, 38

Friday, March 2, 2018

- Chap 16.4: Acid-Base Titrations: Understanding buffer region and pH at the equivalence point
- **Homework 16-5:** p. 722 #22, 24, ~~27,~~ 29, 35, and the following Additional Problem:
  - How many mL of 0.0850 M NaOH are required to titrate 25.0 mL of 0.128 M $CH_2ClCOOH$ (chloroacetic acid, $K_a = 1.38\times10^{-3}$) to the equivalence point? What is the pH of the solution at the equivalence point?

Monday, March 5, 2018

- Ch. 16.6: Solubility Equilibria & K_{sp}
- **Homework #16-6:** p. 723 #41 (in d, Hg_2^{2+} is the cation), 45b, 46b, 50, 53, 54

Tuesday, March 6, 2018

- Ch. 16.7-16.8: Fractional Precipitation and Common Ion Effect (Solubility)
- **Homework #16-7:** Problems pg. 724-725 #55, 56, 57, 59, 60, 61
- **Homework #16-9a:** WKS--Titration Curve pp. 1-2 Only
- **HW:** Pre-lab materials for Solubility Product of an Ionic Compound LAB

Wednesday, March 7, 2018 (Room 382)

- Snow Day!

Thursday, March 8, 2018

- Snow Day!

Friday, March 9, 2018

- Ch. 16.9-16.10: pH and Solubility and Complex Ion Equilibria
- **Homework 16-8:** Problems pg. 724 #64, 65, 67, 68, 72, 74, 76
- **Homework #16-9b:** WKS-- Acid Base FRQ & K_{sp} FRQ pp. 3-4

Looking Ahead: The Chapter 16 Test is scheduled for Thursday, March 15, 2018.