

# AP Chemistry

## Acids and Bases Assignment Sheet

Date	In Class	Assignment
11/17	<i>LeChatelier's Principle minilab due</i> K <sub>sp</sub> problems	Listen to webcast on <a href="#">K<sub>sp</sub> problems</a> Work on science fair initial bibliography
11/20 half day	POGIL: Common Ion Effect on Solubility	Work on science fair initial bibliography <a href="#">Common ion effect webcast</a>
11/21 half day		<b>Vacation Assignment:</b> <ul style="list-style-type: none"> <li>• Reading assignment on alloys and semiconductors</li> <li>• Work on science fair initial bibliography</li> </ul>
11/27	K <sub>sp</sub> minilab Finish K <sub>sp</sub> precipitation problems	Read/highlight chapter 16 outline <a href="#">K<sub>sp</sub> practice problems</a> to study for quiz
11/28 Long F	K <sub>sp</sub> Quiz 3 acid-base theories	Finish K <sub>sp</sub> minilab Watch the <a href="#">pH problems webcast</a>
11/29 half day	<i>K<sub>sp</sub> minilab due</i> Review conjugate pairs & pH calculations	Textbook problems 16.1, 16.2, 16.15, 16.17 Watch <a href="#">weak acid equilibrium problems webcast</a>
11/30	POGIL: Acid-base strength & dissociation constants	Finish science fair initial bibliography for 12/1
12/1 Long B	<i>SciFair Initial Bibliography due</i> Organic Friday: Alcohols Weak acid equilibrium problems (ICE)	Work on CALM problem set Work on topic 16 in review book
12/4	POGIL: Acid-base properties of salts/K <sub>a</sub> , K <sub>b</sub> & K <sub>w</sub>	Finish topic 16 in review book Go to <a href="#">Online HW site #33</a> : and complete 5 problems (Note: it doesn't report sig figs correctly...use the # presented in the original problem)
12/5	Chapter 16 Problem set Ch. 16 MCQ practice	
12/6	Chapter 16 Quiz Introduction to Buffers	Text problems 17.1-17.6, 17.8 Work on topic 17 in review book
12/7 Long F	Buffer problems Chapter 17 problem set	CALM
12/8	Organic Friday: Ethers Titration Problems	CALM Take notes for webcast on <a href="#">pK<sub>a</sub> interpretation</a>
12/11	Titrations Problems & Titration Curves	Study for quiz on titrations
12/12 Long B	Quiz—Titrations Chapter 16/17 problem set	Finish CALM problem set (due 12/19 at 2:20 pm) Complete topic 17 in review book
12/13 ER	Acid-base properties of salts	Prelab assignment for Acid Base Titrations
12/14	Titration Lab Day 1	Work on Acid Base Titration <i>formal lab report</i> Watch webcast on <a href="#">Factors affecting acid strength</a>
12/15	Organic Friday: Aldehydes Finish POGIL if needed Chapter 16/17 problem set	
12/18	Titration Lab Day 2	
12/19	POGIL: Factors Affecting Acid Strength	Acids/bases summary card
12/20	Wrapup/review	Study for acids/bases test
12/21	Acids and Bases Test	Finish acid-base titration formal lab report
12/22 ER	<i>Titrations lab due</i> Chemistry Caroling	Vacation work: Read/highlight chapter 19 outline Reading guide for solutions process and metallic bonding

Additional useful resources from the online HW site: (will show answers, but not complete solutions after 3 attempts)

[pH, pOH problems](#)  
[pH of acid/base solutions](#)

[acid base titrations](#)  
[composition of buffers](#)

[properties of buffers](#)