***AP Chemistry***

Equilibrium Assignment Sheet

This is one of the most challenging units in this course. The key to success is ongoing practice and problem solving.

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| **Date** | **In Class** | **Assignment** |
| 11/4 | Modeling dynamic equilibrium & LeChatelier's principle | Study for equilibrium test |
| 11/5 | Kinetics Unit Test  **\*Last day of term 1\*** | Read/highlight chapter 15 outline  Work on science fair initial proposals |
| 11/8 | Writing Keq expressions and interpreting Keq values (Desmos)  Kc vs. Kp expressions | Work on science fair initial proposals  CALM problem set |
| 11/9 | Manipulating Keq expressions  Evaluating Keq expressions |
| 11/10 | Chapter 15 problem set | Manipulating equilibrium constants practice (Desmos) |
| 11/12 | Reaction Quotient & LeChatelier's principle (Desmos) | Listen to webcast on [Calculating Equilibrium Concentrations](https://www.youtube.com/watch?v=kvYpdxIOuao)  Finish science fair initial proposal |
| 11/15  Long A | **\*Science fair initial proposals due\***  Calculating Equilibrium Concentrations (ICE) | Work on CALM  Pre-lab for guided inquiry lab (write a proposed procedure) |
| 11/16 | Chapter 15 Problem Set | Work on CALM |
| 11/17 | Lab #6: LeChatelier’s Principle  (Guided Inquiry Lab #1) | Study for quiz (Keq/Q vs K, LeChatelier’s Principle) |
| 11/18 | Quiz: Keq/Q vs K, LeChatelier’s Principle  Chapter 15 Problem Set | Work on LeChatelier’s Principle Minilab  Work on CALM problem set |
| 11/19 | AP Classroom assignment |
| 11/22 | Chapter 15 Problem Set | **Finish CALM problem set by 11:59 pm on 11/28**  Chapter 15 Summary card |
| 11/23 | Chapter 15 Problem Set | Finish LeChatelier’s Principle Minilab |
| 11/29 | **\*LeChatelier’s Principle Minilab due\***  Equilibrium MCQ practice  Equilibrium wrapup/review | STUDY for chapter 15 test |
| 11/30 | Chapter 15 test | Chapter 16 outline |
| 12/1 | Common Ion Effect & Slightly Soluble Salts (POGIL) | Listen to webcast on [Ksp Problems](https://www.youtube.com/watch?v=aCm0Jw1iBS4) |
| 12/2 | Ksp problems | Finish problem set if not completed in class  Do [interactive practice](https://www.sciencegeek.net/Activities/KspSolubility.html) for predicting ppt |
| 12/3 | Lab #7: Ksp lab | Study for Ksp quiz  Do [interactive practice](https://www.sciencegeek.net/Activities/CommonIon.html) for common ion effect |
| 12/4 | Ksp quiz  3 acid-base theories | Finish Ksp minilab (due 12/5) |

Sciencegeek.net has a lot of useful [interactive practice for chemical equilibrium](https://www.sciencegeek.net/APchemistry/APtaters/directory.shtml)—see the Chapter 13 activities on the site

[Dr V's equilibrium playlist](https://youtube.com/playlist?list=PLtz4W54HGyRS7dgXo_F7SvqS0iGtaIxLE)