

AP Chemistry Summer Assignments:

Read chapters 1-4 in the textbook, Chemistry, (Zumdahl and Zumdahl eighth edition) As you read each chapter pay close attention to any worked out problems.

After each chapter please go to the National Math and Science Initiative (NMSI) AP Chemistry website.

<http://apchemistrynmsi.wikispaces.com/AP+Chemistry+Class+Lecture+Notes+AND+instructional+videos>

The website is updated and changed often, so direct links to the files you need are below.

Download the pdf files that correspond to chapters 1-4, and store them as files in notability on your iPad. For each set of notes, there is a companion video that explains the notes and works through the problems. **The password for the videos is "linuspauling"**

Workout all of the sample problems in notability or on paper. There is a companion video for each chapter you should watch that will explain the chapter and works out the problems.

Please keep your file and problems in notability as they will be checked the first week of school in the fall.

These are the files you need to work with from the NMSI website:

Chapter 1:

01 Chemical Foundations PDF:

<https://apchemistrynmsi.wikispaces.com/file/view/01%20Chemical%20Foundations.pdf/522332124/01%20Chemical%20Foundations.pdf>

Chapter 1 Companion Video:

<https://vimeo.com/14216778>

Chapter 2:

02 Atoms, Molecules, Ions. PDF

<https://apchemistrynmsi.wikispaces.com/file/view/02%20Atoms%2C%20Molecules%2C%20Ions.pdf/116713743/02%20Atoms%2C%20Molecules%2C%20Ions.pdf>

Chapter 2 Companion Video:

<https://vimeo.com/14217141>

Chapter 3:

03 Stoichiometry PDF

<https://apchemistrynmsi.wikispaces.com/file/view/03%20Stoichiometry%20with%20answers.pdf/522332384/03%20Stoichiometry%20with%20answers.pdf>

Chapter 3 Companion Videos:

Part 1: <https://vimeo.com/13588248>

Part 2: <https://vimeo.com/104121824>

Stoichiometry Worksheet PDF: (Some of these are difficult. Watch the videos for help)

<https://apchemistrynmsi.wikispaces.com/file/view/STOICHIOMETRY%20WORKSHEET.pdf/156995017/STOICHIOMETRY%20WORKSHEET.pdf>

Stoichiometry Worksheet Videos:

Part 1: <https://vimeo.com/14216971>

Part 2: <https://vimeo.com/14221435>

Chapter 4

04 Types of Chemical Reactions & Solutions PDF

<https://apchemistrynmsi.wikispaces.com/file/view/04+Types+of+Chemical+Reactions+%26+Solution+Stoich+with+answers.pdf/522332588/04%20Types%20of%20Chemical%20Reactions%20%26%20Solution%20Stoich%20with%20answers.pdf>

Chapter 4 Companion Videos:

Part 1: <https://vimeo.com/14041605>

Part 2: <https://vimeo.com/15032138>

Part 3: <https://vimeo.com/15026695>

Net Ionic Equations with solubility rules PDF:

At the end, it lists about 100 equations for you to write out. **You only need to do the first five of each type**

<https://apchemistrynmsi.wikispaces.com/file/view/04+Net+Ionic+Equation+with+solubility+rules.pdf/163529691/04%20Net%20Ionic%20Equation%20with%20solubility%20rules.pdf>

Companion Videos:

Net Ionic Redox Reactions Part I: <https://vimeo.com/19810577>

Net Ionic Redox Reactions Part II: <https://vimeo.com/19810659>

Net Ionic Redox Reactions Part III: <https://vimeo.com/20250608>

Net Ionic Acid Base Neutralization Reactions: <https://vimeo.com/19769524>

Net Ionic Decomposition Reactions: <https://vimeo.com/19809786>

Net Ionic Addition or Composition Reactions: <https://vimeo.com/19768891>

Please e-mail me if you have any difficulty with the website or any aspect of this assignment.