

## WELCOME TO AP CHEMISTRY

The AP chemistry curriculum is extensive. Experience has shown that it is very difficult to cover 22 chapters of text material and required labs before the AP test date in early May. **This summer assignment is essential** to being well prepared for the AP class. You should already be familiar with most of the topics covered in the first five chapters of the text since they were a big part of the first year curriculum. The assigned problems are a review of those very fundamental topics.

Your hand written solutions to these problems, **with work shown**, are due the first day of class. I'll return this assignment (**parts will be graded**) to you and we will spend 4-5 class periods going over the problems and taking tests.

During the first semester of school I'll give you a Princeton Review book which summarizes the curriculum topics and contains practice AP tests as well. Plan to purchase a lab manual (approx. \$60) and goggles (if you lost the ones you got this year) during the first week of school.

I'll post this assignment on the school web site. Contact me over the summer at [horwatt@wlake.org](mailto:horwatt@wlake.org) if you have any questions.

The answers to the odd numbered problems are in the back of the book. Check these answers to make sure you're doing the problems correctly. Make sure you show all work, label all measurements, and watch significant digits with your answers.

CHAPTER	PROBLEMS (from end of chapter)
1: p. 31	8, 25, 31, 33, 41, 49, 53, 57, 68, 69, 74
2: p. 74	<b>Memorize polyatomic ions with charge on p.67, acids p.72</b> 25, 49, 58, 64, 66, 70, 71
3: p. 123	21, 27, 29, 51, 53, 67, 71, 76, 86, 92, 95, 97, 102
4: p. 179	<b>Memorize the solubility rules on p. 152</b> Review section 4.9, we will balance redox equations in class. 15, 23, 24a, 29, 31, 33, 35, 36, 40, 43, 47, 48, 53
5: p. 230	Note section 5.8, real gases, van der Waals equation 29, 35, 40, 54, 67, 69, 73, 75, 77, 81