**AP Chemistry Syllabus**

**Unit 1: Chapters 1 to 3**

**PLEASE NOTE:** Each individual assignment in the problem set should be done on its own piece of paper to get full credit. Don’t merge them together.

DAY TOPIC ASSIGNMENT

1 First Day. Study Ion List 1

 Class Introduction for a quiz tomorrow

 Hand out study sheets and review them briefly (formative)

 A general guide for Chemistry Students

 Good things to know

 10 ways of study that work

 Common mistakes to avoid

 Follow the 4 steps of Problem Solving

 Class information sheet

 Go over class website

 Hand out Ion Sheet

2 1.1 to 1.5 p. 33 / 10-15

 Ion Quiz # 1 (quiz on List 2 is Friday)

 Start PPT on Chapter 1

 Introduction to Chemistry Ch. 1 Vocabulary

 Scientific Method quiz on Thursday

 Metric System (formative)

 Numbers In Chemistry

3 1.6 to 1.10 p. 33 / 17-25 odd

 p. 36 / 47-53 odd

 Continue with Ch. 1 PPT p. 37 / 65-71odd, 72

 Temperature p. 38 / 89-121 any 6

 Density and Problem Solving Ion quiz # 2

 Describing Matter Friday

 An overview of the introductory labs. (formative)

4 2.1 to 2.7

 Ch. 1 Vocabulary Quiz (formative)

 Start with Ch. 2 PPT p. 73 / 16-24 any 3

 Early History of Chemistry p. 76 / 65-68 all

 Fundamental Laws p. 77 / 79-86 any 5, 88

 Dalton’s Atomic Theory

 Early work on the atom to the present

 Molecules and ions

 Introduction to the periodic table

5 2.8

 Ion Quiz # 2 (quiz on list 3 is Tuesday)

 Nomenclature

 Practice worksheets

 Using the periodic chart as a guide

6 2.8

 Nomenclature

 Continue with practice

 Can work in groups half-way through

7 2.8

 Ion Quiz # 3 (Ion Quiz # 4 on Friday)

 Nomenclature

 Continue from yesterday

8 Chapter 1 and 2 Review

 Problem Set

 Prepare for Formative quiz tomorrow

9 Chapter 1 and 2 Formative Quiz

10 Ion Quiz # 4 (Ion Quiz # 5 on Tuesday) p. 128 / 37-44 odd

 Start Chapter 3 (PPT) 3.1, 3.2, 3.4

 Counting by weighing and atomic masses

 Use analogies and the use of ratios

 Molar Mass (3.4)

11 3.3 and 3.6

 The Mole

 Mole Theory p. 129 / 51-56 all

 Mole Calculations

 Moles 🡨🡪 Grams p. 130 / 75-76

 Moles 🡨🡪 Particles p. 130 / 81-83, 87-89

 Percent Composition

12 3.7 to 3.9

 Review Ch. 1 & 2 Formative from last week p. 131 / 99-102

 Ion Quiz # 5

 Empirical & Molecular Formula

 Nature of a Chemical Reaction

 Begin Balancing Chemical Equations

13 3.10

 Stoichiometry with Limiting Reagent p. 132 / 112-120 all

 Percent Yield

14 3.10

 Stoichiometry with Limiting Reagent

 Percent Yield

15 Review of Chapter 3 Material

 Problem Sets and Worksheets

16 Test on Unit 1 🡪 Chapters 1 to 3

Sept. 4

**Lab Activities for Unit 1**

We are going to do a series of Lab Activities as well as some actual labs.

Remember that all Labs and Activities are summatives.

The Activities this unit are more general in nature. They are generally short and the skills that you will learn will help you all year.