OLD TEXTBOOK FROM BEFORE 2023 (Zumdahl, ignore if a student in 2023-2024 or beyond). I'm keeping this on the class website as a reference for myself.

Unit 4 (College Board) Textbook Questions/Study Guide

Reminders:

- HIGHLIGHT PROBLEM NUMBERS SO IT'S EASY FOR ME OR TAS TO FIND YOUR PROBLEMS YOU ARE WORKING ON.
- Turn in assignment as pdf file please.
- The yellow highlight are the CB topic section titles
- The **In textbook #** bold parts shows where in the textbook you can read about the topic
- The organization of these questions are based on what my TAs think fall under CB topic section titles. Some of the questions can be mixes of the topics (and sometimes units!). If a question feels weirdly organized, let me know and I'll fix it.
- This is not a comprehensive study guide; it's what questions I can find that correspond to the unit we are on.
- You can do more practice problems from the book/internet besides what I assign. If you need more practice, do more problems. If you take future STEM courses in the future, making your own homework is VERY beneficial to getting good grades in classes. If you want the answers to any practice problems you do on your own, I can happily send that over and go over how to do them.

Organized by former AP chem student (H.A):

Sec 4.2

Page 170 #9, 17 (do half of the parts), 8, 19, 79, 8

Sec 4.3 The composition of Solutions

Pg 171 #10, 21a, 23a, 25, 29 a and b,

Sec 4.5 Precipitation Reactions (table 4.1 is on pg144)

Page 170 #1,2,4,35 half the parts, 37, 39, 41, 45, 49, 81 half parts

Sec 4.7 Stoichiometry of precipitation Reactions

Pg 175 #87, 85,

Sec 4.8 Acid–Base Reactions

Pg 171 #13, #57, 61, 63,

Sec 4.9 Oxidation Reduction Reactions

Page 170 #5 Pg 174 #69 (half parts, make sure to practice the ion charged ones), 71 (half parts, do not identify the "agents"), 15c,

Challenge (as in it'd be like a frq in different parts that are callouts of previous units)

3.5 Percent Composition of Compounds 3.6 Determining Formula of a compounds and other sections of unit 4, do this after going through all of unit 4
Pg 175 #91, 97, 114

My old way of organizing problems:
Drawings, make sure you have a key
Pg 170 #1, 2, 4 (based on what you had to memorize), 8, 17 (do half of the parts)

Oxidation number:
Pg 170 #5

Dissolving stuff
Pg 171 #9

Making solutions/molarity
Pg 171 #10, 21a, 23a, 25, 29a&b, 87

Acid-Base rxn/titration
Pg 171 #13, #57, 61, 63

Writing rxns
Pg 171 #19

Precipitation rxn/solubility rules (table 4.1 is on pg144)
Pg 172 #35 half the parts, 37, 39, 41, 45, 49, 81 half parts

Redox rxn
Pg 174 #69 (half parts, make sure to practice the ion charged ones), 71 (half parts, do not identify the “agents”)

Random
Pg 171 #15c, 79, 85

Challenge (as in it’d be like a frq in different parts that are callouts of previous units)
Pg 175 #91, 97, 114