

AP CHEM ASSIGNMENT SHEET #3 **CHEMICAL BONDING**

PART I 😊

First, skim Chang 2.5, 2.6, and read 2.7 (however, bypass the acid/base naming business), then look at 3.3 and 3.5 through 3.10 (lots of stoichiometry review).

Start to memorize the polyatomic ions in Table 2.3; note Tables 2.4 and 2.7; note Figure 2.14.

Check out the *Chemistry in Action* on pages 52 and 104.

Answer the following from page 73:

58, 60

A few fun review questions can be found on pages 107-115:

40, 43, 48, 50, 52, 54, 68, 84, 90, 98, 102, 104, 112, 113 (bloody), 114, 132, 140

Next, look over Chang chapter 9 (save 9.3 and 9.10 for Part II).

Note figures 9.1, 9.5, and 9.7, as well as Tables 9.1, 9.2, and 9.4.

Please answer the following questions from pages 390-397:

5 (pick a few), 7, 11, 14, 15, 16, 19, 30, 32, 36, 40 (no reasons), 45, 46, 47, 48, 50, 52, 54, 100, 59, 60, 63, 66, 86, 90, 93 (pick a couple), 96, 98 (tragic), 111 (so stupid ...), 114, 116, 131

Check out Chang sections 10.1 and 10.2; note Tables 10.1 and 10.2.

Read *Chemistry in Action* on page 412.

Please answer the following questions from page 442:

6, 7, 8, 12 (pick a few), 13, 18, 19, 20, 21, 22, 23, 24

OK - almost finished. Read Chang 22.3 and 22.7. Note Tables 22.3 - 22.5.

Read *Chemistry in Action* on pages 956 and 958.

Please answer the following questions from pages 960-963:

9, 11, 12, 13, 15, 16, 17, 18

From your APQ packet, answer questions **19d**, **29**, **40 ab**, **50 bc**, and **58 b**.

PART II 😊 😊

Read Chang sections 9.3 and 9.10, sections 10.3 through 10.8, and page 475 about metallic crystals; note Tables 10.4 and 10.5, and note figures 10.5 (the "zone of ahh"), 10.7, 10.10, 10.12, 10.16, 10.19, 10.22, 10.23, 10.24, 10.25, 10.26, and 10.27

Read *Chemistry in Action* on page 440.

Please answer the following questions from pages 391-393:

21, 23, 25, 26, 70, 72 a, 75,

Please answer the following questions from pages 442-447:

25, 27, 32, 34, 36, 38, 42, 43, 44, 45, 47, 48, 50, 52, 53, 58, 64, 67, 82, 86 (Al Gore Pt I), 88 (AZT), 100 (Al Gore Pt. II), 101 (note: *dimer*), 103 (females only, however)

From your APQ packet, answer questions **2 c**, **40 c**, **50 d**, **58 a**, and **66 b**.

And answer the following:

#301 Explain how the electron configuration of the arsenic atom in the ground state is consistent with the existence of the following known compounds:

