

**General Chemistry I  
Problem Set 5**

**Due Wednesday, October 20, 2004 (note change from syllabus)**

1. (6 points) Silberberg 10.65
2. (8 points) Silberberg 10.67
3. (4 points) Silberberg 11.27
4. (6 points) Silberberg 11.35
5. (7 points) Silberberg 11.37

**Revision to Course Schedule**

10/11	M		(Molecular Shape and VSEPR Theory continued)
10/13	W	<b>PS 4</b>	Molecular Orbital Theory (Section 11.3)
10/15	F		(Molecular Orbital Theory continued)
10/18	M		(Molecular Orbital Theory continued)
10/20	W	<b>PS 5</b>	Hybridization (Sections 11.1 and 11.2)
10/22	F		(Hybridization continued)
10/25	M	<b>PS 6</b>	Bonding and Structure of Organic Molecules (15.1-15.2)
<b>10/27</b>	<b>W</b>		<b>TEST 2: Lectures thru 10/22; PS 4, 5, and 6 [Midterm Grades Due]</b>
10/28	Th		<b>Fall Break (no class)</b>
10/29	F		<b>Fall Break (no class)</b>
11/1	M		(Bonding and Structure of Organic Molecules continued)
11/3	W	Baby Kuwata	(Bonding and Structure of Organic Molecules continued)
11/5	F	<b>PS 7</b>	Intermolecular Forces; States of Matter (12.1; 12.3; 12.5) <b>[W/draw Deadline]</b>
11/8	M		(Intermolecular Forces and States of Matter continued)
11/10	W		Chemical Equilibrium (Ch. 17)
11/12	F	<b>PS 8</b>	(Chemical Equilibrium continued)

We have gone into greater depth into Lewis structures and VSEPR theory than I had originally scheduled, which is fine! This is foundational material. I will also spend two more days on Chapter 11. Our discussion of molecular orbital theory and hybridization is essential preparation for Organic Chemistry next year. Note that this shifts Chapter 15 (our short introduction to organic chemistry) to after Test 2. To accommodate our greater coverage of structure and bonding, I will be skipping our coverage of transition metal complexes (Chapter 23). (Don't tell Prof. Fischer or Prof. Doan I am doing this!)

Baby Kuwata is still due on November 3. Whenever she comes, you can look forward to at least one week of guest lectures by Dr. Rob Rossi.