

# Textbook Homework for Chemistry 204

*Chemical Principles* was written for Chemistry 202-204 and similar courses at other universities. The text assumes a prior knowledge of chemistry equivalent to that in a good, one-year high school chemistry course. The end-of chapter problems are organized such that the more routine problems are given first, arranged by section. **You should be able to do all of these problems** after reading and understanding the chapter. The more difficult problems that require more creativity are given under the “Additional Problems” heading, with the most difficult problems under the “Challenge Problems” heading. **You will probably not be able to do all of these problems the first time you try them.** If you cannot do a particular problem, reread the appropriate material and try again. By the time we finish with the material in a particular chapter, we expect that you will be able to do all of the problems at the end of that chapter. **You are expected to understand all of the concepts in these problems.**

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## Textbook Homework for Exam I

### OWL Assignments for End-of-Chapter Problems (due by 10 pm as marked):

<b>Friday, January 29:</b>	<b>Chapter 12:</b> 27, 34, 53, 56, 60, 158
<b>Monday, February 1:</b>	<b>Chapter 12:</b> 45, 46, 47, 63, 64, 66, 69
<b>Wednesday, February 3:</b>	<b>Chapter 12:</b> 79, 80, 84, 87, 93, 96, 97, 98
<b>Friday, February 5:</b>	<b>Chapter 12:</b> 105, 106, 108, 116, 119, 139, 159, 161
<b>Monday, February 8:</b>	<b>Chapter 14:</b> 10, 20, 22, 23, 25, 29, 33, 74, 91
<b>Wednesday, February 10:</b>	<b>Chapter 14:</b> 34, 39, 42, 43, 44, 45, 50, 53, 54
<b>Friday, February 12:</b>	<b>Chapter 14:</b> 56, 87, 89, 90, 92, 93, 94, 95
<b>Monday, February 15:</b>	<b>Chapter 19:</b> 18, 24, 26, 31, 34, 36, 38, 41
<b>Friday, February 19:</b>	<b>Chapter 19:</b> 46, 50, 51, 53, 55, 57, 58, 60
<b>Monday, February 22:</b>	<b>Chapter 19:</b> 61, 62, 65, 66, 98, 99, 104

The problems given below are correlated with a given lecture as stated below. They will be collected by your TA in your Discussion section (either Tuesdays or Thursdays, as noted).

**Tuesday, February 2**

Wednesday, January 27: Chapter 12: 21, 22  
Friday, January 29: Chapter 12: 37  
Monday, February 1: Chapter 12: 39, 43, 48, 50, 51, 147, 160

**Tuesday, February 9**

Wednesday, February 3: Chapter 12: 54, 55, 65, 68, 71, 72, 75, 164, 165  
Friday, February 5: Chapter 12: 76, 107, 112, 115, 140, 154, 162, 167, 168  
Chapter 14: 9, 14, 15  
Monday, February 8: Chapter 14: 26, 28, 30, 65

**Tuesday, February 16**

Wednesday, February 10: Chapter 14: 35, 36, 38, 40, 41, 46, 47, 48  
Friday, February 12: Chapter 14: 49, 51, 52, 55, 57, 58, 73  
Monday, February 15: Chapter 19: 7, 8, 16, 19

**Tuesday, February 23**

Friday, February 19: Chapter 19: 21, 22, 25, 28, 33, 35, 37, 42, 44, 47  
Monday, February 17: Chapter 19: 48, 49, 52, 54, 56, 59, 68, 71, 84, 97, 100

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**Thursday, January 28**

Wednesday, January 27: Chapter 12: 21, 22

**Thursday, February 4**

Friday, January 29: Chapter 12: 37  
Monday, February 1: Chapter 12: 39, 43, 48, 50, 51, 147, 160  
Wednesday, February 3: Chapter 12: 54, 55, 65, 68, 71, 72, 75, 164, 165

**Thursday, February 11**

Friday, February 5: Chapter 12: 76, 107, 112, 115, 140, 154, 162, 167, 168  
Chapter 14: 9, 14, 15  
Monday, February 8: Chapter 14: 26, 28, 30, 65  
Wednesday, February 10: Chapter 14: 35, 36, 38, 40, 41, 46, 47, 48

**Thursday, February 18**

Friday, February 12: Chapter 14: 49, 51, 52, 55, 57, 58, 73  
Monday, February 15: Chapter 19: 7, 8, 16, 19

**Thursday, February 25**

Friday, February 19: Chapter 19: 21, 22, 25, 28, 33, 35, 37, 42, 44, 47  
Monday, February 17: Chapter 19: 48, 49, 52, 54, 56, 59, 68, 71, 84, 97, 100