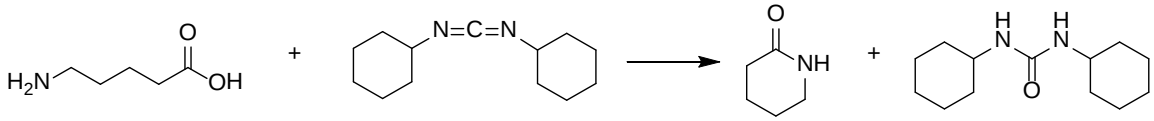
Chem 52 Homework Problems (from McMurry 8th ed.) Due dates for required homework sets will be announced during class.

For all homework assignments you are encouraged to work with other students if you cannot solve the problems on your own. Use the Solutions Manual wisely and only after you have given a problem your BEST effort. You will not learn how to do the problems if you simply copy down or flip through the answers. I encourage you to ask me if your answer is correct if you cannot determine if your answer matches the one found in the Solutions Manual. Many students find it convenient to write questions in the margins beside the problems that give them the most difficulty. If you wish to talk with me, show me your work on the problem thus far. Don't erase everything you have. Your attempt gives me insight as to what may be giving you trouble. Mark the problems that you find particularly difficult and try them again later. Typically, students who understand the recommended and required homework problems also understand how to solve exam questions. And sometimes homework problems make their way onto exams!

	Recommended Problems	Strongly Recommended or Required Problems
Ch. 16	5, 11, 13, 14, 17, 18, 21, 22, 27, 29, 30, 38, 46, 50, 61, 63, 73	6, 7, 8, 16, 20, 26, 28, 31, 35, 36, 41, 52, 55, 58, 64, 69, 72
Ch. 17	1, 2, 5, 6, 7, 9, 12, 13, 14, 15, 17, 23, 34, 41, 43, 63	4, 10, 22, 30, 33, 35, 37, 39, 44, 65 (c requires 2 separate steps)
Ch. 18	1, 2, 3, 5, 7, 9, 11, 16, 20, 21, 22, 23, 27, 32, 37, 41a, 43, 56, 57	8, 10, 12, 13, 14 (assume NaOH deprotonates H_2O^{18} so that almost all of the OH^- is O^{18} labeled.), 25, 30, 44, 54, 55
Ch. 19	1, 2, 6, 12, 13, 15, 30, 32, 33, 35, 48, 55	4, 10, 11, 16, 21, 22, 27, 34, 38, 39, 40, 54
Ch. 20	1, 6, 7, 8, 10, 11, 13, 15, 32, 37, 40, 44, 45, 55, 56, 57a-e	2, 3, 9, 14, 18, 21, 26, 27, 33a-d, 34, 35, 38, 54, 58, 59
Ch. 21	1, 3, 4, 6, 7, 11, 12, 14, 16, 17, 18, 19, 23, 25, 26, 43, 45, 51, 56, 64	2, 5, 8, 21, 24, 38, 39, 34, 43, 54, 58 (hint: need two equivalents of DCC), 62, 70
Ch. 21 #43 overall reaction: 		
Ch. 22	1, 2, 4, 6, 8, 12, 14, 15, 19, 22, 28, 31, 42, 43, 47	5, 7, 10, 11, 13, 16, 20, 21, 25, 29, 37, 45, 49, 56, 57
Ch. 23	3b,c, 9, 11, 13, 15, 23, 29, 35, 39, 42, 44, 52, 53, 54	2, 7, 8, 10, 14, 16-22, 24, 28, 37, 41, 43, 48, 49, 57
Ch. 24	2, 5, 9, 10, 12, 13, 14, 20, 32, 39, 40, 34, 52, 66, 70	1, 4, 6, 8, 11, 19, 27, 31, 43a-c, 44, 37, 38, 45, 46, 47, 50, 55
Ch. 25	3, 4, 6-10, 13, 14, 16, 18, 19, 21, 28, 30, 31, 33, 44, 55, 63, 70	2, 5, 11, 12, 15, 17, 22, 25 27, 29, 38, 39, 43, 47, 61, 66
Ch. 26	3a, 4, 8, 10, 19, 22, 23 , 24, 27, 28, 47, 51, 53, 54, 58	2, 5, 6, 9, 11, 13, 14, 15, 16 17, 20, 35, 31, 32, 34, 38, 40, 41, 44, 53