

**CHEMISTRY 342 PROBLEMS**

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These assume you are using Carey and Giuliano version 8. I have lists that are appropriate if you instead have McMurry 6 or 7 or almost any version of Wade.)

Ch	Recommended Book Problems
	Test 1
4	Alcohol basics and halogenation: 5, 7, 10, 23,a,c-h, 24b,f,i, 39a,d, 40a,c
14	Grignard reactions: 3, 4, 5a, 6, 8, 16a, 18b,d,h,km, 19, 20a,b,d,e
19	Esters with Grignards or LiAlH <sub>4</sub> : 15, 17
15	Lots of Alcohol reactions: 2, 3, 10, 18a-c,f, 19a-e, 22a-d, 23a,c, 24b,c, 25a-c, 26a-e, 27d-f,h, 28a-f, 30a,c
	Test 2
13	Spectroscopy: 5, 6, 7, 9, 11, 12, 16, 18, 21, 32a-c, 33a-d, 35, 37, 43, 45, 46, 53, 55, 57
	Test 3
17	Aldehydes and Ketones: 1a,c, 2, 3, 5, 6, 10, 11a, 12, 14a-d, 23a, 26a,b,d,g-k,q,r, 27a,b,d,g-k,q,r, 28a,d, 29a,e, 31a-f, 33, 35, 36, 37a, 38a,b, 39a-d, 40, 44d,e, 48, 49
20	Enolate Chemistry: 1, 2, 3, 5, 6, 7, 9, 10, 13, 14a,b, 16, 18, 19, 20, 22, 23, 24, 27, 28, 29, 30, 39, 47a, 48, 52a,b, 53, 54c, 55, 58, 60a-g, 61, 62a,d,e, 64a,b, 69, 73, 74, 77a,b,e,f, 78b-e Decarbox: Ch 18: 11, 12 Wittig: Ch 17: 17, 18, 20, 44b,c
	Test 4
21	Amines: 1, 2, 3, 6, 13, 23a-c, 24a-g,i,j, 27a,b,d, 29a-c,e, 29, 34a,c,g, 36a-g,j, 37a-f, 38a, 39a-c, 42a
18	Acids: 3, 5a-c,f, 7, 8, 9, 10, 13a,b,e-j, 14a,c,d, 15, 16a,d, 17a-d,f, 19a,c,e,f, 20a,b,d,e, 21, 24a-c,e,f, 28, 30a, 34, 35, 37
19	Acid Derivatives: 1,c,d, 3, 5, 6a,b, 7, 8, 11, 12, 14, 18, 20, 22, 27d-f, 28b,c, 29a-c,h,j,k,n,o,t, 32a-d, 33a-d,f,g