Formal Report: Synthesis Project Synthesis of Carvone from Limonene Chem 228 WS/2011

ame:		Section:	
General/Grammar (20 points):			
Justification - not left <u>and</u> right justified	-5		
Poor general page layout (margins, font, etc)	-5		
Title - not properly worded	-2		
Spelling - general words misspelled	-2 each		
-Chemical names misspelled	-4 each		
Grammar - failure to comply with the following:	-2 to -10		
-Used and maintained proper tense			
for section, good general grammar			
Missing page numbers, cover page, section labels	-5 each		
General format of tables and figures	-2 to -5		
Failure to attach this gradesheet to paper front	-5		
Subtotal: (not to exceed -20 points)			
Abstract (10 points):			
Missing Abstract entirely	-10		
Abstract not really an abstract	-8		
Missing chemical names or reactions	-2 to -5		
Missing mention of how purity was checked	-2 to -5		
(eg. IR, NMR, GC, TLC etc.)	2 (0 0		
Subtotal: (not to exceed -10 points)			
1			
Introduction (20 points):			
Missing background information			
-Reasons for selecting compounds produced	-3		
-Commercial importance, sources, uses, etc.	-4		
-Review of reactions used, advant. & disadvar			
-Alternate synthesis routes, if possible	-5		
Subtotal: (not to exceed -20 points)			
Procedure (60 points):			
Missing g/mol used (need both for all chemicals)	-5 each		
Missing balanced equations	-5 to -20		
-Equations, but not balanced	-3 to -12		
-Missing structures of chemicals	-3 to -15		
-Structures not typeset (each rxn)	-5		
Missing table of chemicals used	-5 to -20		
-Some info in table inaccurate or missing	-3 to -15		
-Table split across 2 pages	-5		
Procedure not all inclusive or incorrect	-3 to -12		
-Missing tests used (e.g. IR, NMR, GC, TLC)	-2 to -10		
Subtotal: (not to exceed -60 points)			

IR Analysis (60 pts): Missing IR from intermediate steps or all steps Missing reference IR from intermediates Missing tables for the IR analysis -Peak analysis incorrect -Not all "significant" peaks analyzed Subtotal: (not to exceed -60 points)	-10 each -10 each -20 each -2 to -10 -2 to -10			
NMR Analysis (60 pts): Missing NMR from intermediate steps or all steps Missing reference NMR from intermediates Missing tables for the NMR analysis -Peak analysis incorrect -Not all "significant" peaks analyzed Subtotal: (not to exceed -60 points)	-10 each -10 each -20 each -2 to -10 -2 to -10			
Discussion/Results (60 points): Missing Tables of Results -Product masses, % Yields, MP, other tests besides IR, NMR (eg. GC, TLC) Missing or incorrect calculations of % yield Missing discussion of side reactions, yields, etc. Discussion not logical Missing discussion of "How to Improve Experiment" Subtotal: (not to exceed -60 points)	-5 to -20 -5 each -5 to -10 -5 to -15 ' -5 to -10			
References (10 points): No references References are not endnotes Incorrect formatting of citations Failure to give citations for various information Subtotal: (not to exceed -10 points)	-10 -8 -5 -2 each			
Participation/Yellow Sheets (100 points): Failure to turn in yellow sheets (raw data) Failure to turn in final product Missing pre-lab information for each step (may all be included in one table) Missing experimental details Pages not dated and signed by experimenter and TA Did not void blank spaces/Initial Subtotal: (not to exceed -100 points)	-100 -10 -15 each -10 to -30 -10 -5 each			
Late Penalty (After final exam, Thursday 4/28/11)	-20pt/da			
Total of reduced points (not to exceed -400 points):				
Grand Total (400 minus Total of Reduced Points):				