

ENG H191 Lab 4: Viscosity - Lab Report Rubric (page 1)

Names:

Section (day/time):

Survey to be completed by the student (worth 2 points)		
Estimated total time spent working with team (to nearest 0.5 hours):		1 , 0
Estimated total time spent working separately (add individual times together, to nearest 0.5 hours):		1 , 0

Team Working Agreement completed and turned in <i>during lab section</i>	3 , 0
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Format				
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F1: completeness of sections (Title page; Intro gives purpose, summarizes what was done, describes report contents; E.M. describes what was done and how; R.& D. Presents all data collected and observations made; Disc analyzes the results; S.& C. summarizes what was done, concludes based on data/discussion)

6	all sections complete	4	everything present, but not in proper sections	2	one part of a section missing	0	>1 portion missing, or section omitted
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F2: title page, font, spacing, page numbering, appendix formatting

4	perfect	3	one error	1	two errors	0	>2 errors
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Data				
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F3: neatness, clarity, placement

4	clear, easy to read/find, and appropriately placed	3	too much data in report body, or important data not in report body	1	lack of clarity/neatness makes it difficult to read	0	poorly organized or messy
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F4: proper labeling, referencing, units, citation

6	perfect	4	some improper labeling, referencing, missing units	2	consistent improper labeling or referencing	0	contains unlabelled or unreferenced figure/table(s)
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Language				
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F5: formal/technical level

3	appropriate	2	some informal language or misuse of technical terms	1	consistent informal language or misuse of technical terms	0	language at an unprofessional level
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F6: clarity

3	lucid	2	some awkward language	1	portions unclear	0	portions very difficult to understand
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F7: level of detail

3	complete and concise	2	parts too wordy/vague but still get the idea across	1	detracts from the flow or ability to understand	0	major details consistently omitted
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F8: spelling, punctuation, grammar, tense/person

6	perfect	4	minor mistakes don't detract from readability	2	consistent errors detract from readability/ professionalism	0	obvious lack of proofreading
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NOTES: Make sure to fill out the survey at the top for 2 points. Please be honest, as the information will be used to assess future lab requirements. Major points can be lost for not including all necessary parts of each section (F1), not proofreading (F8), or not labeling and referencing (in the text) every figure and table (F4).

pg 1 total: /40

pg 2 total: /60

TOTAL: /100

ENG H191 Lab 4: Viscosity - Lab Report Rubric (page 2)

Introduction	<i>I1: overall quality</i>	6	good summary of the exp. and appropriate purpose	3	poor summary xor inappropriate purpose	0	poor summary and inappropriate purpose
Experimental Methodology	<i>M1: overall quality</i>	6	complete enough for reader to reproduce the experiment	3	thorough, but some details omitted	0	reader likely couldn't reproduce exper.
	<i>lab-specific requirements</i>		present, well-described, correct		poorly described xor incorrect		poorly described and incorrect, or missing
	M2:	Sketch of exp setup	2		1		0
Results and Description	<i>R1: overall quality</i>	2	well-organized, thorough, objective	1	data difficult to read/find xor not objective	0	poor organization and not objective
	<i>lab-specific requirements</i>		present, well-described, correct		poorly described xor incorrect		poorly described and incorrect, or missing
	R2:	3 graphs (1 per fluid) w/ 3 trials each (clearly labelled) of displacement vs time		/6 : [1.5 pt per: present, correct, well-labelled] [1.5 pts: method of displacement calc]			
	R3:	determination of exp. V_t for each fluid (descr. method)		/3 : [0.5 pts per: value in report body] [0.5 pts per: method]			
	R4:	stats for class V_t data	3		1		0
	R5:	calc. of viscosity for 3 fluids		/6 : [1 pt per fluid: correct value] [3 pts: equations and one sample calc.]			
	R6:	calc. of Reynolds #, 3 fluids		/5 : [1 pt per fluid: correct value] [2 pts: equations and one sample calc.]			
	Discussion	<i>D1: overall quality</i>	2	shows good understanding of concepts	1	shows need for more work on some concepts	0
<i>lab-specific requirements</i>		present, well-described, correct		poorly described xor incorrect		poorly described and incorrect, or missing	
D2:		reasons for choice of exp. V_t for each fluid	3		1		0
D3:		comparison of class vs. group V_t data	3		1		0
D4:		comparison of exp. visc. to theoretical (give source)	2		1		0
D5:		laminar flow?	2		1		0
D6:		problems with experiment	3		1		0
Summary and Conclusions	<i>S1: overall quality</i>	6	based on data and disc., reflects the purpose of exper.	3	conclusions not supported by data or its treatment in disc, or missing summary	0	innappropriate conclusions and poor (or missing) summary

NOTES: In future rubrics, the lab-specific requirements will not be given in detail. You will be expected to determine what info, figures, tables, calculations, etc. are appropriate based on the lab write-up.

pg 2 total

/60

R2: Displacement takes both x and y components into account. Be sure to normalize time.

R3: You will have to decide what experimental value of V_t to use for your viscosity calculations. Give this value and describe how you obtained it (eg. Averaged three trials; threw one trial out and averaged other two.) Don't give reasons (yet - see D2).

D2: Justify decisions for V_t (see R3).

D4: Look up theoretical viscosities, and give your source.