

CHEM 321: LAB REPORT GRADING RUBRIC - EXPERIMENTAL SECTION FOCUS

COMPONENT		BELOW STANDARD (score 0)	MEETS STANDARD (score 1)	EXCEEDS STANDARD (score 2)
CONTENT – descriptive title		missing or vague	present & appropriate	----
protocol source citation		missing or inaccurate	present & accurate	----
(INTRO) generic purpose of expt.		missing/misunderstood	focuses on generic idea	----
basic theoretical background		missing or vague	main points present	thorough & concise explanation
define/explain new techniques introduced in this experiment		missing, or discusses prev learned techniques	concisely describes newly learned techniques	----
mechanism for this reaction** (as correctly formatted Figure)		missing or incorrect (format or science)	correctly illustrated	----
(EXPERIMENTAL) overall format	section format	recipe format / 1 st person	correct format	----
	process / science conflict	focuses on process instead of science	focuses on science instead of process	----
	description of routine lab work	excessively detailed	proper format	----
	<i>non obvious</i> steps/equip.	ignores reasons or steps	included with correct reasons	----
repeatable from report		no	yes	----
synthesis	reagents or quantities	missing/not in proper format	all present and given in proper format	----
recovery/purification process		unclear/missing	all properly described	----
characterization of product		unclear/missing	all methods used are concisely described	“meets”, plus IDs instruments by model #
(RESULTS) Experiment outcome		ignored, confusing, or some results missing	all results given & correctly interpreted	scientifically accurate and thorough discussion
		% recovery / yield calc. missing/ inaccurate	% recovery / yield calc. present / accurate	----
PROSE – scientific logic errors (S)		3 or more	0 - 2	----
grammatical errors (G)		2 or more	0 - 1	----
improper word choice (W)		3 or more	0 - 2	----
awkward or verbose (A or V)		3 or more	1 or 2	none
ORGANIZATION – required info		some in wrong sections	all in proper sections	----
flow of ideas within sections		choppy or illogical	mostly smooth & logical	reader guided clearly

** Not needed for caffeine experiment

Column totals _____

Questions at end of protocol (add 1 point per correctly answered question) _____ Lab report journal (1 pt) _____

(“MEETS STD” raw score is _____) *Your Raw Score* _____ * *Norm. Factor* _____ = **Norm. Score** _____ /10

Student/instructor conference needed?

<input type="radio"/> No, only minor flaws seen	<input type="radio"/> Student choice, some conceptual flaws seen	<input type="radio"/> Definitely, too many flaws seen
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