

Section Points		Poor					Excellent					Section Scores
		0	1	2	3	4	0	1	2	3	4	
1	<b>Title</b>											0.00
	1 Describes content concisely, adequately, appropriately											0.00
1	<b>Abstract</b>											0.00
	1 Summarizes paper concisely, adequately, appropriately											0.00
12	<b>Introduction</b>											0.00
	6 Successfully establishes context of the study with brief, relevant background information e.g., plant hormones and functioning											0.00
	2 Effectively incorporates relevant studies into introduction											0.00
	2 Effectively presents objectives and purpose of study											0.00
	2 Introduction well written in coherent, concise style											0.00
6	<b>Methods</b>											0.00
	4 Enough relevant info to allow for replication of procedures > Successfully explains how experiment was set up -- plants used, serial dilutions; petri plates; controls > Successfully explains how hypocotyl length was measured > Statement of what statistical analyses were used (two-sample t-tests) for which comparisons											0.00
	1 Methods written in correct, consistent tense.											0.00
	1 Methods written in coherent, concise style.											0.00
14	<b>Results</b>											0.00
	6 Visually presents results clearly and accurately in figures or table > Fig. 1: Effect of various hormone X concentrations on lettuce hypocotyl growth in both dark and light > Fig 2: Effect of hormone X and inc. hormone Y conc. on lettuce hypocotyl growth in both dark and light > Table 1: interactive responses of two hormones --Axes correct and labeled; key or labels for groups; good figure captions; table captions and headers											0.00
	5 Text clearly states findings; points out important statistical relationships and trends; > Effect of light vs. dark on hypocotyl growth > Effect of hormone X concentrations on hypocotyl growth in dark > Effect of hormone X concentrations on hypocotyl growth in light > Effect of 1 concentration hormone X with various concentrations hormone Y on growth in dark > Effect of 1 concentration hormone X with various concentrations hormone Y on growth in dark -- Describes significant differences in mean measurements between treatments											0.00
	2 Properly interprets and writes about statistical analyses											0.00
	1 Successfully integrates textual and visual representations; results are presented concisely, neatly & clearly											0.00
19	<b>Discussion</b>											0.00
	12 Provides sufficient and logical explanation for results, showing understanding of the biology involved > Explain/discuss how hypocotyl growth was affected by light/dark treatment. (Talk about the advantage of hypocotyl growing quickly while underground, and advantage of slower growth when aboveground.) > Explain/discuss how hormone treatment affected response to light treatment; i.e., did hormone overcome light inhibition? Did it increase dark stimulation? Why? > State conclusions about whether the interactive effects of the 2 hormones were synergistic, additive, or inhibitive > Explanation/discussion of the interactive effects, in light of what they know about the functioning of the hormones > Discussion is explanation of results; not just restatement of results											0.00
	3 Effectively incorporates relevant studies (and those of other groups) into discussion of results.											0.00
	1 Discusses problems, solutions, new hypotheses, and how these hypotheses might be tested											0.00
	1 Provides clear conclusion about hypotheses											0.00
	2 Discussion is coherent and flows well											0.00
12	<b>Presentation/Overall</b>											0.00
	3 Citations of references adhere to proper format											0.00
	3 All sources in the report (at least 3) are correctly listed in Literature Cited section											0.00
	2 Grammar and spelling are correct											0.00
	2 Writing is neat, coherent, and flows well											0.00
	2 Demonstrates clear and thoughtful scientific inquiry, and knowledge of the biology involved											0.00