

**Rubric for hydrogel lab activity.**

<b>Category</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
<b>Purpose*</b>		The purpose of the lab, or the question to be answered during the lab, is clearly identified and stated.	The purpose of the lab, or the question to be answered during the lab, is unclear or incomplete.	The purpose of the lab, or the question to be answered during the lab, is erroneous, irrelevant, or missing.
<b>Hypothesis</b>	Hypothesized relationship between the variables and the predicted results is clear and reasonable, based on what has been studied.	Hypothesized relationship between the variables and the predicted results is reasonable, based on general knowledge and observations.	Hypothesized relationship between the variables and the predicted results has been stated, but the logic on which it is based is flawed or missing.	No hypothesis has been stated.
<b>Materials*</b>		Materials and setup used are clearly and accurately described.	Most of the materials and the setup used are accurately described.	Many materials are described inaccurately or are not described at all.
<b>Procedure</b>	Procedure is complete, listed in clear steps, and includes safety considerations. A flow chart or numbered steps are used throughout.	Procedure is listed in a logical order, but parts may not be clear. Safety considerations are included. A flow chart or numbered steps are used throughout.	Procedure is listed but is incomplete or difficult to follow. Safety considerations may be absent.	Procedure does not accurately list the steps of the activity.
<b>Design</b>	Experimental design is a well-constructed test of the stated hypothesis.	Experimental design is adequate to test the hypothesis, but leaves some unanswered questions.	Experimental design is relevant to the hypothesis, but is not a complete test.	Experimental design is not relevant to the hypothesis.

<b>Conclusion</b>	Conclusion includes whether the findings support the hypothesis, possible sources of error, and what was learned from the activity.	Conclusion includes whether the findings support the hypothesis and what was learned from the activity.	Conclusion includes what was learned from the activity but does not refer to the hypothesis.	Conclusion shows little effort and reflection or is missing completely.
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\*In scoring, these seem to produce only three distinct levels of student responses.