

Self-Directed Diffusion Lab /40

Name: _____

Partner(s): _____

- You will carry out a self-directed lab on diffusion using p. 150 of the science 8 textbook as a guide.
- Please ask for any materials you may need that are not already on the cart.
- A formal lab write up is required with Title, Introduction, Question, Hypothesis, Procedure & Materials, Results, Analysis and Conclusion.
- You will mark yourself using the below rubric
- **If this sheet is not filled out and attached to your formal report your report will not be graded**

Category	Excellent			Good			Satisfactory			See Schaub		
	5	4.5	4	4	3.5	3	3	2.5	2	2	1	0
Team work and communication /5	My team did well on the lab. We tried to make sure everyone felt involved and understood the concepts.			For the most part my team and I worked together on the lab and we all understood most of the concepts.			For the most part my group members and I worked together on the lab and I understood all of the concepts.			I did well on the lab and I understand the concepts.		
Introduction /5	Your introduction is a few sentences long and briefly describes what you did and what you found out.			Your introduction is a few sentences long and briefly describes what you did or what the result was. Not both.			Your introduction is present but is lacking.			No to minimal introduction.		
Question /5	Your question is clearly stated in the form of a question.			You have a question. It makes sense.			You have a question. It doesn't make sense.			No to minimal question		
Hypothesis /5	Hypothesis is written as an 'If' and 'then' statement. The hypothesis is clear and specific. It includes details and a predicted outcome with reason(s).			Hypothesis is written as an 'If' and 'then' statement. The hypothesis is clear and specific.			Hypothesis is written as an 'If' and 'then' statement.			No to minimal hypothesis.		

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Procedure & Materials /5	My procedure could be carried out by another group without help. All steps are clearly organized and in a logical order. Required equipment is listed.	My procedure could be carried out by another group with minimal help. Steps are organized and in a logical order. Required equipment is listed.	My procedure could be carried out by another group but they would need some help from me. The procedure touches on mostly everything I did. Most required equipment is listed.	The lab could not be carried out by another group and I am not sure what I did. No list of equipment.
Results /5	My results are clearly laid out and organized using an appropriate format (Example: a table, a chart, or colour scale, etc.) My results could be understood by someone who didn't do the lab.	My results are organized using an appropriate format (Example: a table, a chart, or colour scale, etc.) My results could mostly be understood by someone who didn't do the lab.	I have shown my results however I would probably have to explain them for them to be clearly understood.	My results are disorganized and even someone who did the experiment probably couldn't understand what I have written.
Analysis /5	Q.3 in process and analyze and Q. 5 in evaluate and communicate are answered fully and clearly using full sentences.	Q.3 in process and analyze and Q. 5 in evaluate and communicate are answered briefly using full sentences.	Q.3 in process and analyze is answered and Q. 5 in evaluate and communicate is answered.	Q.3 in process and Q. 5 in evaluate and communicate are not answered.
Conclusion /5	My conclusion reiterates my question and answers it. In my conclusion I list possible sources of error and suggestions for the next time I attempt the experiment.	My conclusion answers the question. In my conclusion I touch on possible sources of error and show evidence of suggestions for what I would change the next time I attempt the experiment.	My conclusion answers the question.	My conclusion does not clearly answer the question.

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