

Name: _____ Date: _____

Who's Choice:

Type of Credit:

Type of Assignment:

☐ Student ☐ Group ☒ Instructor ☐ Practice ☐ Points Completion ☒ Points Correctness ☐ Formative ☒ Summative
Teacher Use Only

Matter and Change

Rubric: Reaction in a Bag Lab Part 1

	Missing	Needs Improvement	Approaching Standards	Meeting Standards	Exceeding Standards
Data Table 1 ____/3pts	0pts <input type="checkbox"/> Missing	1pt <input type="checkbox"/> Missing 2 or more items from the "meeting standards" section.	2pts <input type="checkbox"/> Missing 1 item from the "meeting standards" section.	3pts <input type="checkbox"/> 3 observations were recorded for each chemical. <input type="checkbox"/> All observations were... <input type="checkbox"/> ...specific <input type="checkbox"/> ...accurate	
Data Table 2 ____/6pts	0pts <input type="checkbox"/> Missing	2pt <input type="checkbox"/> Missing 3 or more items from the "meeting standards" section.	4pts <input type="checkbox"/> Missing 1-2 items from the "meeting standards" section.	6pts <input type="checkbox"/> 3 observations were recorded <input type="checkbox"/> All observations were... <input type="checkbox"/> ...specific <input type="checkbox"/> ...distinctly different <input type="checkbox"/> All observations were classified correctly and justified accurately.	Extra Credit 2pt <input type="checkbox"/> 4 observations were recorded <input type="checkbox"/> All observations were... <input type="checkbox"/> ...specific <input type="checkbox"/> ...distinctly different
Testable Questions ____/6pts	0pts <input type="checkbox"/> Missing	2pts <input type="checkbox"/> 1-2 questions were included. -and/or- <input type="checkbox"/> Missing 3 items from the "meeting standards" section.	4pts <input type="checkbox"/> 2 questions were included. -and- <input type="checkbox"/> Missing 1-2 items from the "meeting standards" section.	6pts <input type="checkbox"/> 2 questions were included. <input type="checkbox"/> Both questions were... <input type="checkbox"/> Open-ended <input type="checkbox"/> Testable <input type="checkbox"/> Clear/logical	Extra Credit 1pt <input type="checkbox"/> 3 questions were recorded <input type="checkbox"/> All Questions were... <input type="checkbox"/> Open-ended <input type="checkbox"/> Testable <input type="checkbox"/> Clear/logical
Part 1 Score	_____/15pts				

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Rubric: Reaction in a Bag Lab Part 2

	Missing	Needs Improvement	Approaching Standards	Meeting Standards
	0pts	2-3pts	4-5pts	6pts
Data Table 3 ____/6pts	<input type="checkbox"/> Missing	<input type="checkbox"/> Missing the data for 2 or more experiments. -and/or- <input type="checkbox"/> Data descriptors may show some inconsistencies	<input type="checkbox"/> Missing the data for 1 experiment. -or- <input type="checkbox"/> Data descriptors may show some inconsistencies	<input type="checkbox"/> Data for experiments 2-7 are fully completed <input type="checkbox"/> Data descriptors are consistent
	0pts	4-7pts	8-11pts	12pts
Results ____/12pts	<input type="checkbox"/> Missing	<input type="checkbox"/> Answers to three or more of the result questions are inconsistent with student data.	<input type="checkbox"/> Answers to one or two of the result questions are inconsistent with student data.	<input type="checkbox"/> Experiments cited for <u>all three</u> problems were consistent with student data. <input type="checkbox"/> Chemicals responsible for <u>all three</u> problems were accurately cited according to student data.
Part 2 Score	_____/18pts			

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Rubric: Reaction in a Bag Lab Part 2 Continued

	Missing	Needs Improvement	Approaching Standards	Meeting Standards	Exceeding Standards
Claim ____/3pts	0pts	1pts	2pts	3pts	
	<input type="checkbox"/> Missing	Your claim makes two or more of the mistakes listed below. <input type="checkbox"/> Your claim does not answer the question of the investigation in one clear sentence. <input type="checkbox"/> Is not supported by all relevant evidence in student data. <input type="checkbox"/> Your claim cites unnecessary information (i.e. evidence and/or reasoning)	Your claim makes one of the mistakes listed below. <input type="checkbox"/> Your claim does not answer the question of the investigation in one clear sentence. <input type="checkbox"/> Is not supported by all relevant evidence in student data. <input type="checkbox"/> Your claim cites unnecessary information (i.e. evidence and/or reasoning)	Your Claim... <input type="checkbox"/> Answers the question of the investigation in one clear sentence. <input type="checkbox"/> Is supported by student data <input type="checkbox"/> Does not cite evidence and/or reasoning	
Evidence ____/6pts	0pts	1-3pts	4-5pts	6pts	
	<input type="checkbox"/> Missing	<input type="checkbox"/> Evidence cited is missing 3 or more items in the "Meeting Standards" section.	<input type="checkbox"/> Evidence cited is missing 1-2 items in the "Meeting Standards" section.	<input type="checkbox"/> Evidence cited.. <input type="checkbox"/> Is clear <input type="checkbox"/> Includes only relevant evidence to support your claim <input type="checkbox"/> Doesn't include unnecessary evidence. <input type="checkbox"/> Includes specific references to 2-3 qualitative pieces of evidence. <input type="checkbox"/> Is presented in a logical way <input type="checkbox"/> Is accurate/ matches your data	

Reasoning ____/6pts	0pts	1-3pts	4-5pts	6pts	
	<input type="checkbox"/> Missing	<input type="checkbox"/> Reasoning cited is missing 3 or more items in the "Meeting Standards" section.	<input type="checkbox"/> Reasoning cited is missing 1-2 items in the "Meeting Standards" section.	Your reasoning... <input type="checkbox"/> Is written clearly <input type="checkbox"/> Is completely accurate. <input type="checkbox"/> Logically explains how you were able to eliminate the chemicals not mentioned as being responsible for the problem you are investigating. <input type="checkbox"/> Logically explains how you were able to determine which chemicals were responsible for the problem you are analyzing.	
CER Grammar & Mechanics ____/3pts	0pts	1pt	2pts	3pts	
	Missing	<input type="checkbox"/> Minimal evidence of proofreading <input type="checkbox"/> Lots of mistakes present <input type="checkbox"/> Conclusion is confusing and hard to understand	<input type="checkbox"/> Moderate evidence of proofreading <input type="checkbox"/> Some mistakes <input type="checkbox"/> Mistakes slow down readers understanding of the conclusion	<input type="checkbox"/> Strong evidence of proofreading <input type="checkbox"/> Minimal mistakes <input type="checkbox"/> Mistakes do not hinder understanding of the conclusion	
Total Score for Lab Part 2 Continued	_____/18pts				

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Rubric: Reaction in a Bag Lab Part 3

Analysis ____/8pts	0pts	3-6pts	6-7pts	8pts	Extra Credit 2-4pts
	<input type="checkbox"/> Missing	<input type="checkbox"/> Missing 1 of the two mandatory analysis questions -and/or- <input type="checkbox"/> Answers to at least 2 of the 4 analysis questions are missing 3 or more items described in the “meeting standards” section.	<input type="checkbox"/> Answers to at least 2 of the 4 analysis questions include all but 1-2 of the items listed in “meeting standards”.	Answers to at least 2 of the 4 analysis questions include ALL of the following... <ul style="list-style-type: none"> <input type="checkbox"/> The name of the chemicals that should not be combined. <input type="checkbox"/> An accurate description of the reaction that occurs. <input type="checkbox"/> An accurate description of the risks/problems/ side effects resulting from those substances interacting. <input type="checkbox"/> A working URL where the info was located on. <input type="checkbox"/> Answers are written in your own words and in complete sentences. 	1 or 2 extra analysis questions were completed and include all, or most, of the following information... <ul style="list-style-type: none"> <input type="checkbox"/> The name of the chemicals that should be combined. <input type="checkbox"/> An accurate description of the reaction that occurs. <input type="checkbox"/> An accurate description of the problems/ side effects resulting from those substances interacting. <input type="checkbox"/> A working URL where the info was located on. <input type="checkbox"/> Answers are written in your own words and in complete sentences.
Total Score for Lab Part 3	_____/8pts				