

Name _____

Topic: Osmosis and Diffusion

Lab Report Rubric

Use this rubric as a "checklist" to make sure that you are completing all components of a good lab report.

Score: ____ / 52 =

Component (x weight)	Advanced (4)	Proficient (3)	Near Proficient (2)	Below Standard (1/0)
Title (x1)	<input type="checkbox"/> Title is informative <input type="checkbox"/> Title uses both dependent and independent variables to explain what was studied <input type="checkbox"/> Title is a statement, not a question <input type="checkbox"/> Student full name, followed by partners' names, included under the title	<input type="checkbox"/> One of the "Advanced" indicators is missing or incorrect	<input type="checkbox"/> Two or more of the "Advanced" indicators are missing or incorrect	<input type="checkbox"/> This component is incomplete or missing.
Abstract (x2)	<i>Includes one sentence on all of the following:</i> <input type="checkbox"/> Research <input type="checkbox"/> Statement of purpose <input type="checkbox"/> Methods <input type="checkbox"/> Results <input type="checkbox"/> Discussion	<input type="checkbox"/> One of the "Advanced" indicators is missing or incorrect	<input type="checkbox"/> Two or more of the "Advanced" indicators are missing or incorrect	<input type="checkbox"/> This component is incomplete or missing.
Introduction (x2)	<input type="checkbox"/> Research is cited completely <input type="checkbox"/> In-text citations are in APA format <input type="checkbox"/> At least <u>three</u> reputable sources are used <input type="checkbox"/> Research is complete and relevant to the experiment <input type="checkbox"/> Research is scientifically accurate <input type="checkbox"/> Purpose of experiment is clearly and correctly stated <input type="checkbox"/> Hypothesis is stated as an <i>if... then... because...</i> statement	<input type="checkbox"/> Research is partially cited <input type="checkbox"/> In-text citations may not be in APA format <input type="checkbox"/> Only <u>two</u> reputable sources are used <input type="checkbox"/> Some research may not be complete or relevant to the experiment <input type="checkbox"/> Research has some scientific inaccuracies <input type="checkbox"/> Purpose of experiment is somewhat vague <input type="checkbox"/> Hypothesis is stated as an <i>if... then... because...</i> statement	<input type="checkbox"/> Research is not cited <input type="checkbox"/> Only <u>one</u> reputable sources are used <input type="checkbox"/> Some research may not be complete or relevant to the experiment <input type="checkbox"/> Research is not scientifically accurate <input type="checkbox"/> Purpose of experiment is vague or irrelevant <input type="checkbox"/> Hypothesis is not stated as an <i>if... then... because...</i> statement	<input type="checkbox"/> This component is incomplete or missing.
Materials and Methods (x3)	<input type="checkbox"/> Includes all information needed to test the hypothesis <input type="checkbox"/> Procedure is written in paragraph form, passive voice, simple past tense <input type="checkbox"/> Experimental control is correctly identified <input type="checkbox"/> All relevant materials are mentioned <input type="checkbox"/> Measurements and details are given for all materials and procedures <input type="checkbox"/> Hypothesis is included at end of section and is written as if, then, because (referring to scientific principles learned in class)	<input type="checkbox"/> Includes most of the information needed to test the hypothesis <input type="checkbox"/> Procedure is partially written in paragraph form, passive voice, simple past tense <input type="checkbox"/> Experimental control mentioned, but not correctly identified <input type="checkbox"/> Most relevant materials are mentioned <input type="checkbox"/> Measurements and details are given for most materials and procedures <input type="checkbox"/> Hypothesis is included but may be incomplete or may not refer to scientific principles learned in class	<input type="checkbox"/> Procedure is too incomplete to properly test the hypothesis <input type="checkbox"/> Procedure is not written in paragraph form, passive voice, and/or simple past tense <input type="checkbox"/> Experimental control not mentioned <input type="checkbox"/> Several relevant materials are missing from discussion <input type="checkbox"/> Measurements and details are missing for most materials and procedures <input type="checkbox"/> Hypothesis is included but is incomplete and does not refer to scientific principles learned in class	<input type="checkbox"/> This component is incomplete or missing.

Component (x weight)	Advanced (4)	Proficient (3)	Near Proficient (2)	Below Standard (1/0)
Results (x3)	<input type="checkbox"/> Table has a descriptive title <input type="checkbox"/> Results are stated – not analyzed <input type="checkbox"/> Quantitative data is presented in a table; very organized <input type="checkbox"/> Measurements and qualitative observations are complete and accurate	<input type="checkbox"/> Table has a title, but is not descriptive <input type="checkbox"/> Results are stated but are partially analyzed as well <input type="checkbox"/> Quantitative data is presented in a table; somewhat organized <input type="checkbox"/> Measurements and qualitative observations are mostly complete and accurate	<input type="checkbox"/> Table lacks a title <input type="checkbox"/> Results are stated and analyzed <input type="checkbox"/> Quantitative data is presented in a table; lacks organization <input type="checkbox"/> Measurements and qualitative observations are not complete and/or not accurate	<input type="checkbox"/> This component is incomplete or missing.
Discussion (x3)	<input type="checkbox"/> Results are stated in terms of trends and/or patterns <input type="checkbox"/> Possible explanations are given for all results <input type="checkbox"/> Explanations are fully supported with references to research <input type="checkbox"/> Data is thoroughly analyzed by referring to multiple data points (numbers) from tables and observations <input type="checkbox"/> Justification is given for acceptance or rejection of the hypothesis <u>based on evidence from the data</u> <input type="checkbox"/> Possible errors are discussed	<input type="checkbox"/> Inadequate analysis of trends and/or patterns <input type="checkbox"/> Possible explanations are given for most results <input type="checkbox"/> Explanations are partially supported with references to research <input type="checkbox"/> Analysis of data from tables and observations is limited <input type="checkbox"/> Justification for acceptance or rejection of the hypothesis based on evidence from the data is limited <input type="checkbox"/> Possible errors are stated but not discussed	<input type="checkbox"/> No mention of trends and or patterns <input type="checkbox"/> Possible explanations are given for only some results <input type="checkbox"/> Explanations are not supported with references to research <input type="checkbox"/> Analysis of data is general and does not include discussion of actual numbers and/or observations <input type="checkbox"/> No use of evidence from the data to justify the acceptance or rejection of the hypothesis <input type="checkbox"/> Possible errors are not at all mentioned	<input type="checkbox"/> This component is incomplete or missing.
References (x1)	<input type="checkbox"/> References are all in APA format <input type="checkbox"/> References are in alphabetical order	<input type="checkbox"/> <u>One</u> of the four “You Got This!” indicators is missing or incorrect	<input type="checkbox"/> <u>Two</u> of the four “You Got This!” indicators is missing or incorrect	<input type="checkbox"/> This component is incomplete or missing.
Scientific Writing (x1)	<input type="checkbox"/> All components (except research) are written in past tense <input type="checkbox"/> Proper use of scientific language	<input type="checkbox"/> Most components are written in past tense <input type="checkbox"/> Some misuse of scientific language (e.g. “we proved”)	<input type="checkbox"/> Some components are written in past tense <input type="checkbox"/> Scientific language is not properly used	
Scientific Presentation (x1)	<input type="checkbox"/> Lab report is typed <i>All of the following are correct:</i> <input type="checkbox"/> Times New Roman or Arial font <input type="checkbox"/> 12 pt. font <input type="checkbox"/> 1 inch margins <input type="checkbox"/> text is double-spaced <input type="checkbox"/> All components are in the correct order <input type="checkbox"/> All sections are given clear, bolded headers	<input type="checkbox"/> Lab report is typed <i>One of the other components is incorrect</i>	<input type="checkbox"/> Lab report is typed <i>Two or more of the other components are incorrect</i>	<input type="checkbox"/> Lab report is not typed
Spelling, Grammar, & Punctuation (x1)	<input type="checkbox"/> Spelling is correct <input type="checkbox"/> Grammar is correct <input type="checkbox"/> Punctuation is correct	<input type="checkbox"/> Minor errors in spelling <input type="checkbox"/> Minor errors in grammar <input type="checkbox"/> Minor errors in punctuation	<input type="checkbox"/> Major errors in spelling <input type="checkbox"/> Major errors in grammar <input type="checkbox"/> Major errors in punctuation	