

Lab Report : Plop Plop, Fizz Fizz Alka-Seltzer

Students Names: _____

CATEGORY	Excellent: 4	Good: 3	In progress/Fair: 2	Needs Improvement 1 or 0
Title Header	Accurate heading/title for experiment and all group member names		Some title and names	No title and or no names 1 or 0
Question / Purpose	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 identified, but is stated in a somewhat unclear manner.	The purpose of the lab or the question to be answered during the lab is partially identified, and is stated in a somewhat unclear manner.	The purpose of the lab or the question to be answered during the lab is erroneous or irrelevant. 1 or 0
Experimental Hypothesis	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 appears to be based on flawed logic.	No hypothesis has been stated. 1 or 0
Variables	All variables are clearly described with all relevant details. IV: 1 DV: 1 constants: 1 control: 1	All variables are clearly described with most relevant details. IV: 1 DV: 1 constants: 1 control: 1	Most variables are clearly described with most relevant details. IV: 1 DV: 1 constants: 1 control: 1	Variables are not described OR the majority lack sufficient detail. 1 or 0
Procedure	Procedures appear to be replicable. Steps are outlined sequentially and are adequately detailed.	Procedures appear to be replicable. Steps are outlined and are adequately detailed.	All steps are outlined, but there is not enough detail to replicate procedures.	Several steps are not outlined AND there is not enough detail to replicate procedures. 1 or 0
Data / Results	Professional looking and accurate representation of the data in tables and/or graphs. Graphs and tables are labeled correctly and titled. <i>Multiple trials performed</i>	Accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled. Include some minor errors. <i>Only few trials</i>	Accurate representations of the data in written form, but no graphs or tables are presented. Missing parts. <i>Wrong axes labeled</i> <i>Only performed once</i>	Data are not shown OR are inaccurate. Not large sample size 1 or 0
Analysis	The relationship between the variables is discussed and trends/patterns logically/ correctly analyzed.	The relationship between the variables is discussed and trends/patterns analyzed.	The relationship between the variables is discussed but no patterns, trends or predictions are made based on the data.	The relationship between the variables is not discussed. 1 or 0
Conclusion	Conclusion includes whether the findings supported the hypothesis, possible sources of error, and what was learned from the experiment.	Conclusion includes whether the findings supported the hypothesis and what was learned from the experiment. Minor misstatements / errors	Conclusion includes what was learned from the experiment. Doesn't restate hypothesis or support or reject it.	No conclusion was included in the report OR shows little effort and reflection. 1 or 0
Neatness / Organization	Very neat and well organized using proper lab write-up format provided. Typed and diagrams/pics included	Neat and fairly well organized, couple errors in proper format. <i>Typed diagrams / pics</i>	Lacks neatness and organization of proper format <i>Typed</i>	Sloppy, unorganized, not typed, no pics or diagrams
Grammar	Correct, multiple sentences ¶s, no spelling errors, etc.	Some errors, but they don't stand out	Frequent errors that make the report hard to read	Multiple errors, little effort to correct before turning in
Repeat lab from report	Yes, easily repeatable	Would have to ask some questions	Would have to ask many questions	NO WAY, No How!!! What did you do here?
Further Scientific Thought	A new scientific thought is proposed, answered from data, generated from experiment	A new scientific thought is expressed in response, but erroneous, not developed, or hypothesis not suggested		NO further thought, questions, anything! COME ON!
Points Possible = 48				
_____ / 48	= _____	= _____	= _____	= _____