

TEN GREAT CHEMISTRY NERDS RESEARCH EVALUATION RUBRIC

☐ Peer Evaluator: _____

Student Name: _____

☐ Teacher Evaluator

Criteria	Below Level One to be determined	Level One +/- 1- 1 1+ 52% 55% 58%	Level Two +/- 2- 2 2+ 62% 65% 68%	Level Three +/- 3- 3 3+ 72% 75% 78%	Level Four +/- 4- 4 4+ 85% 90% 95%
Communication This pertains to the tools developed such as the interview, observation charts and to the final write up	Writing is unclear <i>The minimum criteria for grade 11 college /university not met</i> Paragraphs were not used Sentence structure is weak <i>Unacceptable level of grammar errors</i> unacceptable level of spelling errors	Writing is less clear <i>Ideas are communicated with limited effectiveness</i> Limited use of proper paragraph and sentence structure <i>Several errors in grammar</i> Several errors in spelling	Writing is somewhat clear <i>Ideas are communicated with some effectiveness</i> Sometimes using proper paragraph and sentence structure <i>Few grammar errors</i> Few spelling errors	Writing is clear <i>Ideas are communicated with effectiveness</i> Usually proper paragraph and sentence structure used <i>Mostly free of grammar errors</i> Mostly free of spelling errors	Writing is very clear and concise <i>Ideas are communicated with a high degree of effectiveness</i> Proper paragraph and sentence structure used <i>Proper grammar</i> Proper spelling
Knowledge/ Understanding Based on write up and discussion or research	The final write up and discussion of research does not reflect a knowledge of the chemistry <i>Content is severely lacking in terms of quantity of information*</i>	The final write up and discussion of research demonstrates a limited understanding of the chemistry <i>Content is limited in terms of quantity of information*</i>	The final write up and discussion of research demonstrates some understanding of the chemistry <i>Content could be stronger in terms of quantity of information*</i>	The final write up and discussion of research demonstrates understanding of the chemistry <i>Fairly strong content in terms of quantity of information*</i>	The final write up and discussion of research demonstrates a very thorough and in depth understanding of the chemistry <i>Strong content in terms of quantity of information*</i>
Thinking/ Inquiry Analysis and presentation of data Conclusions drawn	The paper does not reflect effective research <i>Data absent or irrelevant</i> The paper does not reflect analysis or interpretation of research <i>Conclusions are not logical or are missing</i>	Limited level of inquiry skill shown regarding effective research <i>Minimal data present</i> Limited analysis skills shown in interpreting research <i>Conclusions shows limited logic</i>	Somewhat effective level of inquiry skill shown regarding effective research <i>Some data present</i> Somewhat effective analysis skills shown in interpreting research <i>Conclusions shows some logic</i>	Effective level of inquiry skill shown regarding effective research <i>Data present and relatively complete</i> Analysis skills shown in interpreting research <i>Conclusion is logical</i>	Extremely high level of inquiry skill shown regarding effective research <i>Data complete and well organized</i> Strong analysis skills shown in interpreting research <i>Conclusion is logical and shows insight</i>
Application Able to follow the process of the method of inquiry	Fails to successfully apply the concepts of science research Tools not developed or used <i>No problem stated</i> <i>No hypothesis</i> <i>Very limited description of method used</i> <i>Data not present</i> <i>No Conclusions</i>	Beginning to successfully apply the concepts of science research Tools poorly designed or not used well <i>Problem unclear</i> <i>Hypothesis unclear</i> <i>Limited description of method used</i> <i>Data incomplete</i> <i>Limited Conclusions</i>	Some success in applying the concepts of science research Tools designed somewhat useful <i>Problem sort of clear</i> <i>Hypothesis included but vague</i> <i>Some success in the description of method used</i> <i>Data brief but available</i> <i>Some successful</i> <i>Conclusions drawn</i>	Successfully applies the concepts of science research Tools designed effectively and used well <i>Problem clear</i> <i>Hypothesis clear</i> <i>Good description of method used</i> <i>Data complete easy to follow</i> <i>Conclusions effectively drawn</i>	Extremely successful application of the concepts of science research Tools creatively and effectively designed and utilized <i>Problem clear and concise</i> <i>Hypothesis effective and clear</i> <i>Thorough description of method used</i> <i>Data complete and effectively organized</i> <i>Conclusions insightful</i>
Observation Experiment Interview	Observations absent or incomplete No variables or control groups identified Interview missing not properly developed Forms missing not properly developed	Observations incomplete Variables or control groups misidentified Interview not properly developed Forms not properly developed	Observations limited Variables or control groups somewhat used Interview somewhat successful Forms somewhat successful	Observations successful Variables or control groups identified Interview successful Forms successfully developed	Observations thorough Variables or control groups clearly identified Interview very successful Forms extremely successful

Scientist: _____

what I really liked...

what I think could have been improved upon...