2021 Main Rubric





Proposed Research = A potential project that a student could conduct given proper resources and facilities based on a thorough review of previous literature. The purpose is to demonstrate sound scientific thinking and insight, regardless of current mentor status. The results should be related results from previously published work or data that the student has already collected.

Guidelines	Score (1 = lowest)										
P R P P P P P P P P P P P P P P P P P P	1	2	3	4	5	6	7	8	9	10	
2. Review of Literature / Gap in Research Fully cites and discusses at least 3 previous scientific studies Explains current lack of knowledge ("Gap") that previous literature is missing	1	2	3	4	5	6	7	8	9	10	
3. Goals / Hypothesis / Engineering Goals Thoroughly discusses connections between previous literature ("Funnel Effect") and proposed research States goals of proposed research States and justifies hypothesis of proposed research	1	2	3	4	5	6	7	8	9	10	
 4. Methodology / Materials Explains a potential methodology for proposed research Explains how key steps in methodology would address the proposed goal/objective If controls and variables are necessary in proposed research, clearly explains both If a survey is necessary in proposed research, questions adequately address the goal 	1	2	3	4	5	6	7	8	9	10	

P R	5. ResultsShows related/potential results and/or data of										
O P	proposed research in tables, charts or graphs										
O S	 Displays proper titles, labels, units, and citations 	1	2	3	4	5	6	7	8	9	10
E D	6. Analysis / Discussion										,
R E	 Student clearly and adequately explains expected results of proposed research 	1	2	3	4	5	6	7	8	9	10
S	7. Conclusion / Application / Future Focus										
E A	Summarizes expected research findings										
R	Explains potential impact of findings	1	2	3	4	5	6	7	8	9	10
C H	Identifies next steps and future focus										
8. Student Understanding / Questions & Answers											,
 Fully answers questions, further demonstrating understanding 		1	2	3	4	5	6	7	8	9	10
pro	eaks well and clearly explains all aspects of oject while answering questions ows definite/deep understanding of material										
9. V	erbal Presentation										
• Pre	esents material in a clear, organized manner										
Demonstrates enthusiasm											
• Ra	rely says: "um," "ah," "like," etc.	1	2	3	4	5	6	7	8	9	10
10.9	Slide Presentation										
	xt is clearly visible with readable formatting										
	formation is "bulleted" without excessive										
	nounts of text	1	2	3	4	5	6	7	8	9	10
• All	words are spelled correctly										
• Ne	at, organized, appealing visual presentation										
• All	figures, photographs, and diagrams are properly ed										