SCIENCE RESEARCH PROJECT PROPOSAL EVALUATION RUBRIC

General Science • Human Behavior • Engineering

Student:

_____

Project Title:

_____

Judge:

_____

Question you will be asked:

1. Where is the gap and how are you addressing it?
2. How does project connect to the real world?
3. What are your methods?
4. What are the independent, dependent controls and constant variables?
5. How will you ensure safety and ethics?
6. What are you measuring?
7. How will you display (graph) and analyze your data (statistics)?

Category	Excellent (10 pts)	Good (8 pts)	Satisfactory (6 pts)	Needs Improvement (4 pts or less)	Score
1. Rationale & Background (10 pts)	**10 pts:** Clear understanding of the problem; strong background research; importance and impact clearly explained	**8 pts:** Mostly clear with adequate background	**6 pts:** Basic background provided	**0–4 pts:** Limited understanding or rationale	_____ /10
2. Research Question / Engineering Goal (10 pts)	**10 pts:** Question or goal is clear, focused, testable, and supported by rationale	**8 pts:** Mostly clear and testable	**6 pts:** Somewhat broad or unclear	**0–4 pts:** Unclear or not testable	_____ /10
3. Experimental Design & Methods (10 pts)	**10 pts:** Procedures are detailed and appropriate; variables/controls identified; data collection plan is strong	**8 pts:** Minor weaknesses in design	**6 pts:** Important details missing	**0–4 pts:** Design unlikely to answer question	_____ /10
4. Data Analysis Plan (10 pts)	**10 pts:** Clear explanation of how data will be analyzed; appropriate statistics/graphs identified	**8 pts:** Analysis plan mostly appropriate	**6 pts:** General plan but lacks detail	**0–4 pts:** Analysis plan unclear or missing	_____ /10
5. Safety, Ethics & Feasibility (10 pts)	**10 pts:** Risks, ethics, and safety addressed; project is realistic and feasible	**8 pts:** Minor concerns	**6 pts:** Some concerns remain	**0–4 pts:** Major concerns not addressed	_____ /10
6. Presentation & Understanding (10 pts)	**10 pts:** Organized, professional presentation; answers questions confidently and accurately	**8 pts:** Good understanding with minor weaknesses	**6 pts:** Adequate understanding demonstrated	**0–4 pts:** Difficulty explaining project or answering questions	_____ /10

TOTAL SCORE: _____ /60

Strengths

Suggestions for Improvement

Recommendation

☐ Ready to Begin Research (54–60)

☐ Ready with Minor Revisions (45–53)

☐ Significant Revisions Recommended (36–44)

☐ Revise and Resubmit (Below 36)