

Science Research Project Evaluation

Name: _____

Date: _____

| Criteria | Points Earned | Points Possible | Comments |
|--|---------------|-----------------|----------|
| 1. Abstract <ul style="list-style-type: none"> • Is it a concise, 250 word summary of the experiment? • Does it include the purpose (why), the procedures (how), and the conclusions (what was learned)? | | 5 | |
| 2. Problem/Question and Purpose <ul style="list-style-type: none"> • Is it a testable question referencing a cause and effect relationship or a measurable change? • Does it include the purpose? Is it relevant? | | 5 | |
| 3. Hypothesis <ul style="list-style-type: none"> • Does the hypothesis include the cause and effect of the expected outcome? • Is the hypothesis testable? • Is the hypothesis based on research? | | 5 | |
| 4. Materials <ul style="list-style-type: none"> • Are the materials listed and appropriate for the experiment? • Are the quantities for each item listed? | | 5 | |
| 5. Procedure <ul style="list-style-type: none"> • Are the steps sequentially numbered? • Are the steps involved in the experiment detailed? • Are the procedures appropriate for the experiment? | | 10 | |
| 6. Variables and Constants <ul style="list-style-type: none"> • Does the experiment have a single independent variable? • Does the experiment have a defined dependent variable? • Are the constants listed? | | 5 | |
| 7. Data Collection <ul style="list-style-type: none"> • Are there both qualitative and quantitative observations records? • Are data charts, and tables included? • Are measurements in metric units? • Is the data measurable and related to the problem statement? | | 10 | |
| 8. Data Analysis <ul style="list-style-type: none"> • Are the patterns, trends, and relationships described or explained? • Does the analysis include comments or reasons to justify the relationships, accounting for any outliers? • Is data represented using appropriate graphs? | | 10 | |
| 9. Conclusion <ul style="list-style-type: none"> • Is conclusion supported by the results of the experiment? • Does the conclusion accept or reject the hypothesis and explain why? • Explained relevance of project and/or real world applications? • Are changes or suggestions recommended for further testing? | | 10 | |
| 10. Bibliography <ul style="list-style-type: none"> • Are the sources cited correctly? • Are the sources relevant, current, and appropriate? • Is more than one type of resource used? | | 5 | |
| 11. Presentation/Display <ul style="list-style-type: none"> • Is the presentation organized and easy to understand? • Includes all components of the research project? • Does the display accurately represent the purpose of the project? • Accurate spelling, grammar, punctuation? | | 10 | |
| 12. Logbook <ul style="list-style-type: none"> • Original, hand-written, comprehensive logbook displayed? | | 20 | |
| Total Points | | 100 | |