**Project Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Project Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Points** | **Sub-standard** | **Below average** | **Average** | **Above average** | **Outstanding** | **Totals** |
| **Objectives** | **20** | * **Hypothesis not testable or does not connect to the problem** * **Major flaws in foundation** * **Purpose is unclear** * **Basis or foundation vague** * **Addresses a problem for which the answer is known.** * **Vague identification of variable and controls**   **(1-4)** | * **Hypothesis is weak or invalid** * **Some flaws** * **Partially developed basis or foundation** * **Embellishes an existing idea** * **Limited opportunity for learning something new** * **Purpose vague** * **Vague identification of variable and controls**   **(5-8)** | * **Good, testable hypothesis** * **Unique perspective on a traditional project, sufficiently developed** * **Ture learning opportunity exists** * **Objectives clear** * **All relevant variables and controls are identified**   **(9-12)** | * **Good, testable hypothesis** * **Clear purpose stated** * **Original research based on personal interests or insights** * **True learning opportunity** * **Properly identification of all relevant variables and controls**   **(13-17)** | * **Good, testable hypothesis that connect research to literature review** * **Clear purpose stated as a hypothesis** * **Original research that extends previous research or body of knowledge** * **True and unique learning opportunity**   **(18-20)** |  |
| **Design of project** | **30** | * **Uses limited or questionable literary resources** * **Difficult to follow** * **No sequence of the scientific process** * **Does not address hypothesis/problem** * **Unoriginal and/or unclear design**   **(1-6)** | * **Uses questionable and/or limited literary sources** * **Difficult to follow** * **Lapses in scientific procedures and processes** * **Vaguely addresses hypothesis/problem** * **Unoriginal design**   **(7-13)** | * **Uses 3+ sources appropriately cited** * **Process is evident** * **Adequately addresses hypothesis/problem** * **Rational of procedure** * **Original design**   **(14-18)** | * **Uses 5+ sources appropriately cited** * **Fully addresses hypothesis/problem** * **Establishes a basis for design and procedure** * **Original, creative design**   **(19-25)** | * **Uses 5+ sources appropriately cited** * **Fully addresses hypothesis/problem** * **Justifies procedure or design on the basis of standard methods in the area** * **Original, creative design**   **(26-30)** |  |
| **Execution/**  **Experimentation** | **20** | * **Procedure performed incompletely or incorrectly** * **Very weak record keeping** * **Level of skill and/or work put in very low**   **(1-4)** | * **Procedure was performed on time and sample size was minimal** * **Weak documentation or record keeping** * **Level of skill and/or work minimal**   **(5-8)** | * **Procedure was performed 2+ times and sampling was adequate** * **Good recording and documentation** * **Average level of skill and/or work put into project**   **(9-12)** | * **Procedure was performed 2+ times and sampling was exceptional** * **Groups and controls evident** * **Very good recording and documentation** * **Above average level of skill and/or work put into project**   **(13-17)** | * **Multiple observations, experiments, or trials** * **Groups and controls established** * **Exceptional sampling** * **Exceptional record keeping** * **Exceptional level of skill and/or work put into project**   **(18-20)** |  |
| **Conclusions** | **10** | * **No conclusion** * **No basis for conclusion** * **Nothing new discovered** * **Does not address the problem**   **(1-2)** | * **Conclusion vague and not supported by data** * **Vaguely addresses the problem** * **Contradicts evidence**   **(3-4)** | * **Fairly reasonable conclusion drawn from data** * **Addresses problem or purpose**   **(5-6)** | * **Logical, viable conclusion** * **Addresses problem or purpose** * **Clear rationale evident**   **(7-8)** | * **Logical conclusion drawn from data; strong rationale** * **Fully addresses the hypothesis or question** * **Raises new questions or suggests real world applications**   **(9-10)** |  |
| **Presentation & Display** | **20** | * **No evidence of preparation** * **Cannot orally communicate ideas** * **Low quality and clarity of display** * **Project appears disjointed and is not comprehensive**   **(1-4)** | * **Little evidence of preparation** * **Communicates very little understanding of the topic** * **Low quality and clarity of display** * **Project appears disjointed and is not comprehensive**   **(5-8)** | * **Some evidence of preparation** * **Communicates some understanding** * **Adequate visual display** * **Project appears somewhat disjointed and comprehensive**   **(9-12)** | * **Carefully organized information and presentation** * **Clear communication** * **Good visual display** * **Project is a comprehensive report**   **(13-17)** | * **Thorough preparation** * **Clear and confident communication** * **Utilizes variety of visual aids** * **High quality visual displa** * **Project is a clear and comprehensive report**   **(18-20)** |  |

**PROJECT TOTAL**