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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **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**