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| Project Title: | |
| Student Names: | |
| Scoring Scale: | 5 = Excellent; 4 = Good; 3 = Satisfactory; 2 = Weak; 1 = Poor; 0 = Not Present |

SECTION 1: SCIENTIFIC CONTENT *Complete EITHER 1A, 1B, OR 1C*****

1A. Experimental Project (an investigation to test a scientific hypothesis using experimentation, usually featuring the identification and control of variables)

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| 1. The hypothesis was clearly stated. | 0 1 2 3 4 5 |
| 2. Experimental design reflected understanding of the scientific method and underlying scientific principles (e.g., project displayed suitable experimental design/replicates; understanding and control of variables was demonstrated). | 0 1 2 3 4 5 |
| 3. Results were clearly presented and explained (e.g., observations were clearly summarized in tables/graphs and were consistent with data collected; a logical explanation of results was provided; sources of error were recognized). | 0 1 2 3 4 5 |
| 4. Conclusion/summary were based on experimental data and tied to the hypothesis. | 0 1 2 3 4 5 |
| 5. Logbook was completed that summarized progress, procedures, results, ideas, interpretations, and conclusions. | 0 1 2 3 4 5 |
| 6. The degree of difficulty of this project was exceptional. | 0 1 2 3 4 5 |

1B. Study (the collection and analysis of data from other sources that reveals evidence of a fact, situation, or pattern of scientific interest)

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| 1. The subject was clearly stated. | 0 1 2 3 4 5 |
| 2. The student showed evidence of extensive research, including reading and contacting knowledgeable people on the subject. Information was effectively gathered, combined, and organized. | 0 1 2 3 4 5 |
| 3. The student identified key points and concepts of the research topic while also displaying an understanding of problems or issues related to the subject. | 0 1 2 3 4 5 |
| 4. A logical conclusion/summary based on the research was reached and new ideas were formulated as a result. | 0 1 2 3 4 5 |
| 5. Critical analysis/interpretation of research material was presented. | 0 1 2 3 4 5 |
| 6. The degree of difficulty of this project was exceptional. | 0 1 2 3 4 5 |

1C. Innovation (the development and evaluation of innovative devices, models, or techniques in technology, engineering, or computers)

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| 1. Existing knowledge and background research were integrated into problem formation. A problem was clearly identified and provided direction for the project. | 0 1 2 3 4 5 |
| 2. Suitability and limitations of the chosen materials/methods were understood. | 0 1 2 3 4 5 |
| 3. The project design was efficient, effective, and addressed the problem/objective. | 0 1 2 3 4 5 |
| 4. Testing was carried out to modify the project design and correct shortcomings as the project proceeded. | 0 1 2 3 4 5 |
| 5. The progress of the project was recorded in a logbook. | 0 1 2 3 4 5 |
| 6. The degree of difficulty of this project was exceptional. | 0 1 2 3 4 5 |

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| SUBTOTAL (max 30) | |
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SECTION 2: CREATIVITY AND INSIGHTS *Complete for all projects*****

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| 1. The project was imaginative and creative (e.g., resourceful use of equipment/information gathered; creativity in the interpretation of the data/information gathered) | 0 1 2 3 4 5 |
| 2. The student thought about how the project should be improved or done differently. The student thought about relevant or potential applications of the project. | 0 1 2 3 4 5 |

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| SUBTOTAL (max 10) | |
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SECTION 3: COMMUNICATION *Complete for all projects*****

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| 1. The oral presentation was clear, concise, and logical. The display board effectively presented the project. | 0 1 2 3 4 5 |
| 2. The student answered questions competently and accurately. | 0 1 2 3 4 5 |

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| SUBTOTAL (max 10) | |
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NOTES:

SUMMARY OF MARKS:

- 1. Scientific Content (max 30)..... _____
- 2. Creativity and Insights (max 10)..... _____
- 3. Communication (max 10)..... _____

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| TOTAL (max 50) | |
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