

Project Name and Number \_\_\_\_\_

Science Field:

|           |                |                      |                           |                          |
|-----------|----------------|----------------------|---------------------------|--------------------------|
| Botany    | Environmental  | Earth and Space      | Energy and Transportation | Engineering and Computer |
| Chemistry | Math & Physics | Medical Microbiology | Social and Behavioral     | Zoology                  |

|             |  |  |  |            |
|-------------|--|--|--|------------|
| <b>I.</b>   | <b>Research Question</b>                                       |  |  |            |
|             |  | Clear and focused purpose  |  | 5          |
|             |  | Identifies contribution to field of study  |  | 5          |
|             |  | Testable using scientific method   |  | 5          |
|             |  | <b>Subtotal</b>  |  | <b>15</b>  |
| <b>II.</b>  | <b>Design and Methodology</b>                                  |  |  |            |
|             |  | Well designed plan and data collection methods                                   |  | 10         |
|             |  | Variables and controls defined, appropriate and complete                         |  | 5          |
|             |  | <b>Subtotal</b>  |  | <b>15</b>  |
| <b>III.</b> | <b>Execution: Data collection, Analysis and Interpretation</b> |  |  |            |
|             |  | Systematic data collection and analysis  |  | 20         |
|             |  | Reproducibility of results   |  | 5          |
|             |  | Appropriate application of mathematical and statistical methods                  |  | 5          |
|             |  | Sufficient data collected to support interpretation and conclusion               |  | 10         |
|             |  | <b>Subtotal</b>  |  | <b>40</b>  |
| <b>IV.</b>  | <b>Creativity</b>  |  |  |            |
|             |  | Project demonstrates significant creativity in one or more of the above criteria |  | 30         |
|             |  | <b>Subtotal</b>  |  | <b>30</b>  |
|             |  | <b>TOTAL</b>   |  | <b>100</b> |

V. Presentation (45pts) Students Name(s) \_\_\_\_\_

Project Number \_\_\_\_\_ Grade 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup>

Category circle one:    Botany    Chemistry    Earth/Space    Energy and Transportation  
Engineering and Computer    Environmental    Math/ Physics  
Medical/Health    Microbiology    Social/Behavioral  
Zoology

Total points earned in presentation category. \_\_\_\_\_/45pts

a. Poster (10pts)

- \_\_\_ Poster displayed with project number 1pt
- \_\_\_ logical organization of material .... 1 2 3
- \_\_\_ clarity of graphics and legends ..... 1 2 3
- \_\_\_ supporting documentation displayed 1 2 3

b. Interview (35 pts)

- \_\_\_ clear, concise, thoughtful responses to questions 1 2 3 4 5
- \_\_\_ understanding of basic science relevant to project 1 2 3 4 5
- \_\_\_ understanding interpretation and limitations of results and conclusions 1 2 3 4 5
- \_\_\_ degree of independence in conducting project 1 2 3 4 5
- \_\_\_ recognition of potential impact in science, society and/or economics 1 2 3 4 5
- \_\_\_ quality of ideas for further research 1 2 3 4 5
- \_\_\_ for team projects, contributions to and understanding of project by all members, if an individual project circle 5. 1 2 3 4 5