WBRSF 7-12 Judging Rubric

| PROJECT #: | | WOOD |
|------------------|---|---------------------|
| Student Name(s): | | BUFFALO REGIONAL |
| Project Title: | | SCIENCE |
| | _ | FAIR |

PART A: Communication

| Summary : Effective communication and presentation skills should be evident on their poster board. Scientific thought, innovation, | | | | | | | | | |
|--|---|--|--|---------------------|---|------|--------|------------------------------|--|
| thoroughness, understanding and effort should be integral to it. | | | | | | | | | |
| Level 1 (low) | ow) Level 2 (fair) Level 3 (good) | | 1) | Level 4 (excellent) | | Mark | | | |
| Score Range 0-5 | Score Range 5 | 5-10 | Score Range 10-15 | | Score Range 10-15 Score Range 15-20 | | 5-20 | | |
| 0 5 | 5 | 10 | 10 | 15 | 15 | 20 | | | |
| The poster board is | | | | | | | | The poster board is complete | |
| insubstantial or incomplete. There is little evidence of attention to effective communication. In a group project, one member may have made a stronger contribution to the presentation. | There is little in summary that of interest. In a girone member member member member to the presentation of the presentation. | roup project, nay have a er contribution | and demonstrates attention to detail and substance. The lay out of the poster board is well thought out. In a group project, all members made and equal contribution to the presentation | | and exceeds reasonable expectations of a student at this age/grade. The lay out is logical and self-explanatory, and the poster board is concise and well presented. In a group project, all members contributed equally and effectively to the presentation. | | space. | | |

PART B: Initiate and Plan, Perform and Record

| WHY? and HOW? : This section assesses the following criteria: project structure; correctness of research methodology; scientific | | | | | | | | |
|---|--|--|--------------------------------------|---------------------------------------|---------------------|-------------|-------------|------|
| thought and understanding; correspondence of the content to the topic, goals, and objectives; technical skills; thoroughness and | | | | | | | | and |
| effort; accordance of conclusions to results obtained; and academic or practical value. | | | | | | | | |
| Level 1 (low) | | Level 2 (good) | | | Level 3 (excellent) | | | Mark |
| Score Range 0-5 | | Score Range 5 | -15 | | Score Range 15-25 | | | |
| 0 | 5 | 5 | 10 | 15 | 15 | 20 | 25 | |
| DISCOVERY - Re | <u>DISCOVERY</u> – Replicate a known <u>DISCOVERY</u> – Devise and carry out and | | | carry out and | DISCOVER | | | Note |
| experiment to confirm previous findings original experiment. Identify the significant | | | / the significant | out original experiment research in | | | space. | |
| or slightly extend a known experiment variables and attempt to control them. | | | which most significant variables are | | | | | |
| with modest impro | vements to | Analyse the results using appropriate | | identified and controlled. The data | | | | |
| procedures, data (| | arithmetic, graphical or statistical | | analysis is thorough and complete. | | | | |
| possible application | ons. | methods. | | <u>INNOVATION</u> – Integrate several | | | | |
| | TION – Improve/Demonstrate INNOVATION – Design and build | | technologies, inventions, | | | | | |
| new applications f | new applications for existing innovative technology; or provide | | social/behavioural interventions or | | | | | |
| technological system | ems, social or | ns, social or adaptations to existing technology or to | | design and construct and | | | | |
| behavioural interv | , , | social or behavioural interventions; extend | | innovative application that will have | | | | |
| physical theories of | or equipment. | or create new physical theory. Human | | | human and/ | or commerci | al benefit. | |
| | | benefit, advanc | | | | | | |
| | | and/or econom | ic applicatio | ns should be | | | | |
| | | evident. | | | | | | |

PART C: Analyze and Interpret

SO WHAT? and WHAT'S NEXT?: This section assesses the conclusions that have been drawn from the project. In "So what?" students are expected to think critically about the outcomes of their project, analyzing and interpreting data or evaluating a method of prototype. In "What's Next?" students propose future work or improvements Level 2 (good) Level 1 (low) Level 3 (excellent) Mark Score Range 0-15 Score Range 15-30 Score Range 30-45 5 10 15 20 25 30 35 40 45 DISCOVERY - Discussions are DISCOVERY - Discussions are based DISCOVERY - Discussions are clearly Note speculative or missing. Conclusions are around the data and address most aspects of based around the data and address all space. unsupported by the data or missing. the data. Conclusions are mostly supported by aspects of the data. Conclusions are Conclusions are poorly or not the data. Conclusions are drawn from most supported by the data. Conclusions are described/presented or are not aspects of the investigation. Conclusions are drawn from all aspects of the investigation. connected back to the data. Statements Conclusions are clearly described/presented described/presented and are somewhat about the significance of the work are connected back to the data that justifies them. and connected back to the data that justifies missing, overstated or show little or no Statements about the significance of the work them. Statements about the significance of awareness of context. Suggestions for (including human benefit/advancement of the work (including human benefit/advancement of future work are unrealistic and unrelated knowledge/economic applications) are somewhat supported by the information knowledge/economic applications) are to the results of the current project. presented and show some awareness of supported by the information presented and context. Suggestions for future work are show awareness of context. Suggestions for INNOVATION - Performance of the reasonable and at least partly justified by the future work are realistic and justified by the prototype or method is not evaluated results of the current project. results of the current project. (merely described). No comparisons are made to alternative or previous solutions. Statements about the INNOVATION - Performance of the INNOVATION - Performance of the prototype or method is partially evaluated; prototype or method is evaluated completely significance of the work (including human benefit/advancement of some questions remain. Some comparisons and realistically. Honest comparisons are knowledge/economic applications) are are made to alternative or previous solutions. made to alternative or previous solutions, overstated or unsupported by the Statements about the significance of the work where possible. Statements about the significance of the work (including human information presented and show little or (including human benefit/advancement of knowledge/economic applications) are mostly no awareness of context. Suggestions benefit/advancement of for future developments/versions are supported by the information presented and knowledge/economic applications) are unrealistic and unrelated to the show some awareness of context. supported by the information presented and outcomes of the current project. Suggestions for future developments/versions show awareness of context. Suggestions for may overreach and are somewhat connected future developments/versions are realistic to the outcomes of the current project. and justified by the outcomes of the current project. PART D: Presentation

| Measure | Range | Score |
|--|-------|-------|
| 1. Skill | • | |
| Necessary scientific skills shown. | 0-2 | |
| Logbook present with evidence of use. | 0-1 | |
| 2. Display | | |
| Spelling and grammar correct. | 0-1 | |
| Exhibit well constructed and attractive. | 0-2 | |
| Layout logical and self-explanatory | 0-2 | |
| 3. Dramatic Value | | |
| Clear logical enthusiastic presentation | 0-2 | |
| Total Display Score | 0-10 | |

Score Summary:

| Part A: Communication | Part B: Initiate and Plan, Perform and Record | Part C: Analyze and Interpret | Part D: Presentation | Total: | Comments (For judge's use only, this will not be shared with participants): |
|--------------------------|--|--|-------------------------|--------|---|
| /20 | /25 | /45 | /10 | /100 | |
| Strengths Weaknesses | | | | | |
| | | | | | |
| Judge Name (ple | ease print): | | | | Signature: |