

# Western Carolina Regional Science Fair 2009

## Judging Rubric

|   | <i>Poor (0-5)</i>                            | <i>Fair (6-10)</i>                             | <i>Good (11-16)</i>                                       | <i>Outstanding (17-20)</i>   |
|---|--|--|---|--|
| <b>Originality (20pts)</b>                      | Highly derivative                            | Some originality                               | Very imaginative  | Strikingly original, highly imaginative                                      |
| <b>Idea/hypothesis (20pts)</b>                  | Missing, not clearly stated, or not testable | Clearly stated but inappropriate               | Question well formed and testable                         | Rigorous, testable and highly original question                              |
| <b>Experimental design/ methodology (20pts)</b> | Poor or unexplained                          | Explained, but flawed logic                    | Very clear, well designed but process not well understood | Exceptional and original design, demonstrates clear understanding of process |
| <b>Data collection/ Presentation (20pts)</b>    | Data not collected or presented              | Partial data presented but unclear             | Appropriate data, clearly presented                       | Data clearly addresses question, exceptional presentation.                   |
|   | <i>Poor (0-2)</i>                            | <i>Fair (3-5)</i>                              | <i>Good (6-7)</i>   | <i>Outstanding (8-10)</i>  |
| <b>Conclusion/ Application (10pts)</b>          | None or inappropriate conclusion             | Conclusion presented but unclear or inaccurate | Logical conclusion well supported by data                 | Conclusion well supported with strong conceptual links and novel application |
| <b>Poster presentation (10pts)</b>              | Poorly designed and constructed              | Some design but not easy to follow             | Well designed, easy to follow.                            | Excellent design, attractive, good flow well organized                       |

Please work in pairs. Your scores should be arrived at through consensus with your partner. Try your utmost to speak to all contestants (not just the winners). Your feedback is the most valuable part of attending a science fair for the students. Thank you for your time and expertise.

Some examples of questions;

- How did you come up with the idea for your project?
- How did you figure out how to conduct the study (i.e., experimental design)
- What were your main challenges?
- Explain more about what you did (methods)
- Was your hypothesis supported or refuted? (Too many students think that the aim of science is to prove their hypothesis right!)
- What new questions do you have as a result of your work?
- How could you try to answer these new questions?
- What new things did you learn about doing science?
- What would you do differently if you could do your project again?