

## WacSEF Science Judging Form: JUNIOR HIGH

|                            |   |  |   |   |                       |
|----------------------------|---|--|---|---|-----------------------|
| <b>Project #</b>           |   |  |   | <b>Category: Circle one</b><br><b>Science</b><br><b>Technology</b><br><b>Engineering</b><br><b>Math</b> | <b>Judge Initials</b> |
| <b>Project Title:</b>      |   |  |   |   |                       |
| <b>Grade:</b>              |   |  |   |   |                       |
| <b>Creative / Original</b> | <b>25 24 23 22 21 20 19 18</b><br>Unique problem-solving methods & data analysis.<br>Ingenious use of materials & equipment.<br>Truly his/her own.  | <b>17 16 15 14 13 12 11 10</b><br>Some advanced problem-solving & data analysis.<br>Modified an existing experiment.<br>Made it his/her own.   | <b>9 8 7 6 5 4 3 2 1 0</b><br>Basic problem-solving & data analysis.<br>Used an existing experiment.  | <b>Score (0-25 pts.)</b>  |                       |
| <b>Comments:</b>           |   |  |   |   |                       |
| <b>Scientific Thought</b>  | <b>30 29 28 27 26 25 24 23 22 21</b><br>Extensive review of literature..<br>Problem stated clearly; all variables identified.<br>Well-developed hypothesis/plan.<br>Detailed, accurate observations.<br>Data collection explained.<br>Conclusions limited to the data.<br>Possible next steps described   | <b>20 19 18 17 16 15 14 13 12 11</b><br>Adequate review of literature.<br>Problem stated clearly; critical variables identified.<br>Developed hypothesis/plan.<br>Accurate observations.<br>Appropriate data analysis employed and explained.<br>Conclusions flow from the data.   | <b>10 9 8 7 6 5 4 3 2 1 0</b><br>Minimal review of literature.<br>Problem vague; some variables identified.<br>Obvious or weak hypothesis/plan.<br>Sketchy observations.<br>Limited data analysis.<br>Conclusion stated but not fully following the data. | <b>Score (0-30 pts.)</b>  |                       |
| <b>Comments:</b>           |   |  |   |   |                       |
| <b>Thoroughness</b>        | <b>15 14 13 12 11</b><br>Well-organized, detailed logbook with dated entries.<br>Detailed scientific/engineering process completed.<br>Multiple trials for data collection.<br>Advanced awareness of background knowledge.  | <b>10 9 8 7 6</b><br>Organized logbook with dated entries.<br>Complete scientific/engineering process.<br>Multiple trials for data collection.<br>Adequate awareness of background knowledge.  | <b>5 4 3 2 1 0</b><br>Minimal logbook with sporadic entries.<br>Project appears to be rushed through.<br>Scientific process seems incomplete.<br>Single trial for data collection.<br>Minimally aware of background knowledge.                            | <b>Score (0-15 pts.)</b>  |                       |
| <b>Comments:</b>           |   |  |   |   |                       |
| <b>Skill</b>               | <b>15 14 13 12 11</b><br>Well thought-out design; attention paid to details.<br>Precise lab techniques.<br>Accurate measurements and computations.<br>Understands complexity of the equipment.  | <b>10 9 8 7 6</b><br>Experimental design evident.<br>Reasonable lab techniques.<br>Good measurements and computations.<br>Appropriate use of equipment.  | <b>5 4 3 2 1 0</b><br>Limited evidence of planning the experiment.<br>Mostly acceptable lab techniques.<br>Sloppy measurements and/or computations.<br>Lacks understanding of the equipment used.   | <b>Skill Score (0-15 pts.)</b>  |                       |
| <b>Comments:</b>           |   |  |   |   |                       |
| <b>Presentation VISUAL</b> | <b>7 6 5</b><br>.Data collection, analysis and conclusions presented clearly using graphs, charts, diagrams, models, and similar aids.<br>Display board presentation is precise; color and format enhances understanding.<br>Display board is creative and /or unique   | <b>4 3 2</b><br>Clear presentation of some portions of the project using basic graphs, charts, diagrams, models, and similar aids.<br>Display board has a major component missing.   | <b>1 0</b><br>Minimal use of graphic devices to illustrate the concepts or the analysis of the project.<br>Display board presentation seems random and/or sloppy  | <b>Score (0- 7pts.)</b>   |                       |
| <b>Comments</b>            |   |  |   |   |                       |
| <b>Presentation ORAL</b>   | <b>8 7 6</b><br>Concise, well-organized project description<br>Students share the presentation and each group member is well prepared<br>Students make eye contact, use inflection and appropriate hand gestures<br>Students are enthusiastic about the project<br>Students answer judges' questions thoroughly<br>It is clear the students have prepared | <b>5 4 3</b><br>Understandable project description.<br>One or two students take over and/or some students do not participate<br>Students are somewhat unenthusiastic.<br>Students can answer some, but not all of the judges questions confidently<br>Eye contact/ hand gestures are is lacking<br>There has been some preparation | <b>2 1 0</b><br>Basic project information presented.<br>Students are hard to hear, do not make eye contact and are not enthusiastic<br>Students are unable to answer the judge's questions<br>It is clear that the students have not practiced..          | <b>Score (0- 8pts.)</b>   |                       |
| <b>Comments:</b>           |   |  |   |   |                       |
|                            |   |  |   |   | <b>Total</b>          |