

## Completed SCIENCE Project Evaluation

<b>Scoring</b> <b>Actual / Maximum</b>	<b>Feedback (in the form of comments, not point values) from judges will be provided to students.</b> Please check comment(s) as they apply: <input type="checkbox"/> Strong <input type="checkbox"/> Acceptable <input type="checkbox"/> Weak
<b>Problem definition</b>  _____ / <b>10</b>	<b>Problem definition ( 10 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Abstract</b> sufficiently describes the project – problem and goal. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Demonstrates an understanding of <b>scientific problem-solving methods</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Problem</b> was sufficiently framed.
<b>Literature Review</b>  _____ / <b>15</b>	<b>Literature review ( 15 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Includes <b>significant research</b> into similar topics. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Incorporates <b>recent sources</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Includes <b>scientific, credible sources</b> .
<b>Experimental design</b>  _____ / <b>15</b>	<b>Experimental design ( 15 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Experimental <b>design</b> is <b>appropriate</b> for the <b>problem</b> and goal. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Scope of project</b> was reasonable. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Alternative approaches</b> to the proposed research were considered/ discussed.
<b>Conduct of study</b>  _____ / <b>15</b>	<b>Conduct of study ( 15 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Experimental design was properly <b>implemented</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Data collection methods</b> were clearly defined and followed. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Study <b>variables</b> were <b>controlled</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Experiment was <b>repeated</b> several times to establish validity, reproducibility.
<b>Interpretation of results</b>  _____ / <b>20</b>	<b>Interpretation of results ( 20 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Conclusions</b> are <b>logical</b> and are clearly <b>supported by the data</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Possible alternative explanations</b> were considered and eliminated. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Limitations</b> of the data are understood. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Student has an idea of what <b>further research</b> is indicated. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Student provides <b>written documentation</b> of lab work (i.e., lab notebook).
<b>Originality and creativity</b>  _____ / <b>5</b>	<b>Originality and creativity ( 5 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Area of investigation is <b>original</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Project approach is <b>creative</b> .
<b>Project display</b>  _____ / <b>10</b>	<b>Project Display ( 10 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Clearly presents data and results. <b>Data is well organized</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Poster <b>highlights relevant</b> information. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Tables, graphs</b> and <b>illustrations</b> are used effectively. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Poster board is <b>neat/uncluttered</b> .
<b>Oral presentation</b>  _____ / <b>10</b>	<b>Oral presentation ( 10 points maximum)</b> <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W <b>Outstanding presentation</b> – well-organized, thorough and clear. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Student’s <b>ownership/originality</b> was clearly expressed. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Presentation was <b>well-rehearsed</b> and followed a <b>logical order</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Presentation was completed within the allotted <b>time</b> . <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Judges’ <b>questions</b> were <b>effectively</b> anticipated and succinctly <b>answered</b> following the initial presentation. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Student maintained good <b>eye contact</b> with judges. <input type="checkbox"/> S <input type="checkbox"/> A <input type="checkbox"/> W Student was <b>easy to hear and understand</b> .
<b>Total Points</b>  _____ / <b>100</b>	<b>Comments:</b>