

## Judging Criteria

1. The judging criteria and the breakdown of scores for the Research Project and Science Challenge are summarised in the table below:

Judging Criteria	Research Project Component (30%)	Science Challenge Component (70%)
Creative Ability	20	20
Scientific Thought	30	30
Thoroughness	20	20
Clarity	30	30
<b>Total</b>	<b>100</b>	<b>100</b>

2. The scores for the individual components will be scaled accordingly to give the Overall Score.

3. Some guidelines for the judging criteria are given in the table below.

Judging Criteria	Guidelines
<b>A. Creative Ability</b>	<ol style="list-style-type: none"> <li>1) Does the project show creative ability and originality in: <ul style="list-style-type: none"> <li>• the questions asked?</li> <li>• the approach to solving the problem?</li> <li>• the analysis of the data?</li> <li>• the interpretation of the data?</li> <li>• the use of equipment?</li> <li>• the construction or design of new equipment?</li> </ul> </li> <li>2) Creative research should support an investigation and help answer a question in an original way. A creative contribution promotes an efficient and reliable method for solving a problem.</li> </ol>
<b>B. Scientific Thought</b>	<ol style="list-style-type: none"> <li>3) Is the problem stated clearly and unambiguously?</li> <li>4) Was there a procedural plan for obtaining a solution?</li> <li>5) Are the variables clearly recognized and defined?</li> <li>6) If controls were necessary, were they correctly used?</li> <li>7) Are there adequate data to support the conclusions?</li> <li>8) What were the limitations of the data?</li> <li>9) Does the project ties in with current related research?</li> <li>10) What further research can be conducted?</li> <li>11) Was scientific literature cited to support the investigation?</li> </ol>

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<b>C. Thoroughness</b>	12) Was the purpose carried out to completion within the scope of the original intent? 13) How completely was the problem covered? 14) Are the conclusions based on a single experiment or replication? 15) Was other approaches or theories considered?
<b>D. Clarity</b>	16) Were the purpose, procedure and conclusions clearly explained and presented? 17) Are the important phases of the project presented in an orderly manner? 18) How clearly is the data presented? 19) How clearly are the results presented? 20) How well does the project display explain the project? 21) Was the presentation done in a forthright manner?