

## Judging Criteria

### Science

Bronze	Silver	Gold
<p>A Bronze Science Investigation needs:</p> <ul style="list-style-type: none"> <li>• a logbook (this may be more of a diary/notebook for younger student – this is not acceptable for Y9+)</li> <li>• aim/purpose/hypothesis</li> <li>• either a large range of independent variables – pattern seeking OR 3 independent variables repeated at least twice</li> <li>• results are collated/processed appropriately</li> <li>• any calculations need to be correct</li> <li>• conclusion is linked to aim/purpose/hypothesis</li> <li>• the student should have ownership of the project – understands what they have investigated/can talk about the Science in the investigation knowledgeably.</li> </ul> <p>Take the student’s age in consideration. The student is allowed to have had help from an adult(s); someone may have mentored or coached the student. The important part is that the student has learned Science <b>new to them.</b></p>	<p>A Silver Science Investigation needs:</p> <ul style="list-style-type: none"> <li>• a logbook (a diary style is not acceptable for silver)</li> <li>• aim/purpose/hypothesis</li> <li>• either a large range of independent variables – pattern seeking OR 3 independent variables repeated at least 3x – fair test</li> <li>• results are collected, recorded and processed appropriately</li> <li>• any calculations need to be correct</li> <li>• results are graphed to demonstrate a trend or lack of trend</li> <li>• conclusion is linked to aim/purpose/hypothesis</li> <li>• the student should have ownership of the project – understands what they have investigated/can talk about the Science in the investigation knowledgeably</li> <li>• an evaluation of the results that relates to the Science involved</li> <li>• new knowledge is created.</li> </ul> <p>Take the student’s age in consideration. The student is allowed to have had help from an adult(s); someone may have mentored or coached the student. The important part is that the student has learned Science <b>new to them.</b></p>	<p>A Gold Science Investigation needs:</p> <ul style="list-style-type: none"> <li>• a detailed logbook</li> <li>• aim/purpose/hypothesis)</li> <li>• either a large range of independent variables – pattern seeking OR 3 independent variables repeated at least 3x – fair test</li> <li>• results are collected, recorded and processed appropriately</li> <li>• any calculations need to be correct</li> <li>• results are graphed to demonstrate a trend or lack of trend</li> <li>• conclusion is linked to aim/purpose/hypothesis</li> <li>• the student should have ownership of the project – understands what they have investigated/can talk about the Science in the investigation knowledgeably</li> <li>• an in-depth evaluation of the results that relates to the Science involved</li> <li>• needs to demonstrate innovation, uniqueness</li> <li>• a real world impact which may be local, national or global.</li> </ul> <p>Take the student’s age in consideration. The student is allowed to have had help from an adult(s); someone may have mentored or coached the student. The important part is that the student has learned Science <b>new to them.</b></p>

## Technology

Bronze	Silver	Gold
<p>A Bronze Technology Project needs:</p> <ul style="list-style-type: none"> <li>• a need is identified, for a product or a process</li> <li>• a design brief is provided</li> <li>• at least one prototype is made</li> <li>• some form of testing or evaluation is carried out.</li> </ul> <p>Take the student's age in consideration. The student is allowed to have had help from an adult(s); someone may have mentored or coached the student. The important part is that the student has learned Science/Technology <b>new to them</b>.</p>	<p>A Silver Technology Project needs:</p> <ul style="list-style-type: none"> <li>• a need is identified, for a product or a process</li> <li>• a design brief is provided</li> <li>• at least two prototypes are made</li> <li>• product/process is tested/ evaluated</li> <li>• further development is evident</li> <li>• idea is new to student but not necessarily a unique design</li> </ul> <p>Take the student's age in consideration. The student is allowed to have had help from an adult(s); someone may have mentored or coached the student. The important part is that the student has learned Science/Technology <b>new to them</b>.</p>	<p>A Gold Technology Project needs:</p> <ul style="list-style-type: none"> <li>• a need is identified, for a product or a process (could be for a client)</li> <li>• a design brief is provided</li> <li>• at least two prototypes are made</li> <li>• product/process is tested/ evaluated</li> <li>• further development is evident</li> <li>• idea is innovative/ unique /solves a real world problem – may have local, national or global impact.</li> </ul> <p>Take the student's age in consideration. The student is allowed to have had help from an adult(s); someone may have mentored or coached the student. The important part is that the student has learned Science/Technology <b>new to them</b>.</p>