

Level	Description
5	<p>The student has provided clear and convincing evidence that they:</p> <ul style="list-style-type: none"> • actively designed and built a prototype of an innovative product • identified a need or problem and developed a solution that is an improvement over current alternatives • addressed an issue of technological significance • had a good understanding of the technological concepts used in the product • included relevant background research and evaluated the originality of their design by exploring similar related products • had been creative in the design of the product and its production • employed safe and competent construction and design skills • exhibited resourcefulness in the use of materials • produced a reliable innovative product that is easy to use and performs as intended • included a comprehensive logbook or portfolio, detailing the design process from brainstorming through construction, to final product and evaluation • used critical thinking in the evaluation and testing of the innovative product, discussing modifications or improvements • suggested directions for future development in a succinct manner • formally acknowledged those who contributed to the project • used clear, concise and meaningful language to communicate the operational details of the innovative product to the intended audience
4	<p>The student has provided substantial evidence that they:</p> <ul style="list-style-type: none"> • designed and built a prototype of an innovative product with considerable planning • developed an innovative product which is a solution to a need or problem, different from existing products • identified and understood technological concepts used in the innovative product • performed background research and searched for similar products on the market • demonstrated some creative aspects • had shown skill in the design and construction of the innovative product and safe procedures were adopted in the product's production • made considered choices in the selection of materials • had constructed a prototype of an innovative product that works well • included a logbook or portfolio detailing the different stages of the design process • exhibited rational thinking in the testing of the innovative product and alternative procedures for improvements have been suggested • acknowledged and provided details of any assistance given • effectively communicated the innovative product's operational details and the language and visuals take account of the intended audience

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3	<p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> • designed and built a prototype of an innovative product • developed an innovative product which is a solution to a need or problem • demonstrated an understanding of technological concepts used in the product • performed relevant background research • had an innovative product which has some creative features • displayed reasonable workmanship in the design and construction of the innovative product • used suitable materials in the prototype’s construction • had a prototype of an innovative product that works most of the time • provided supporting documentation in the accompanying logbook or portfolio • tested the product and put forward some good ideas for future improvements • acknowledged any assistance given • included an adequate set of operational details to assist the intended audience
2	<p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> • built a prototype of an innovative product with little planning or design • built a product which lacks originality • had placed the innovative product in a technological context • performed little background research • had shown glimpses of creativity • displayed satisfactory workmanship in the design and construction of the innovative product • used some materials in the working model’s construction that were not suitable • had a prototype that works irregularly • provided limited documentation in the accompanying logbook or portfolio • briefly tested the prototype and insufficient ideas have been put forward for future improvements • casually mentioned people who have helped without formally acknowledging assistance given • included an inadequate set of operational details for the intended audience
1	<p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> • entered an innovative product that does not fully work • had an inadequate understanding of the related technological concepts • provided designs and sketches that were haphazard • made a prototype with poor workmanship • failed to test the prototype and ideas for future improvements are vague and impractical • provided limited or disorganised documentation • neglected to acknowledge assistance given and did not include instructional details about the innovative product