

Level	Description
5	<p>The student has provided clear and convincing evidence that they:</p> <ul style="list-style-type: none"> • designed and built a highly original invention or innovative product to meet an identified need or problem • gathered highly relevant background information and evaluated the originality of their design by exploring related existing products or applications • had an in-depth understanding of the technological concepts related to the need, problem or innovation • demonstrated high level skills in the safe and ethical construction of the product • completed a detailed risk assessment and carefully selected appropriate materials and technologies • demonstrated high levels of creativity during the design process • extensively tested the invention or innovative product to refine and improve the design • included a logbook or portfolio that extensively detailed the stages in the design process from initial ideas, through construction, to final product and evaluation • acknowledged the nature of all assistance given in conducting and communicating the design process* • included a clear and detailed description of how their invention or innovative product is used and operated • language used in all written documentation reflects students own authentic voice and understanding*
4	<p>The student has provided substantial evidence that they:</p> <ul style="list-style-type: none"> • designed and built an original invention or innovative product in response to a need or problem • gathered some relevant background research by exploring related existing products or applications • had a clear understanding of the technological concepts related to the innovation • demonstrated satisfactory skills in the safe and ethical construction of the product • completed a risk assessment and selected mostly appropriate materials and technologies • demonstrated some creative aspects during the design process • reasonably tested the invention or innovative product to refine and improve the design • included a logbook or portfolio that clearly detailed the different stages of the design process • acknowledged all assistance given in conducting and communicating the design process • included a description of how their invention or innovative product is used and operated • language used in written documentation mostly reflects students own authentic voice and understanding*

Level	Description
3	<p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> • built an invention or innovative product which was a solution to a need or problem • gathered some background research by identifying related existing products or applications • had a reasonable understanding of the technological concepts related to the innovation • displayed some skills in the safe and ethical construction of the product • completed a risk assessment and selected some appropriate materials and technologies • demonstrated little or no creativity in the design process • Some testing of the invention or innovative product to refine and improve the design • included a logbook or portfolio that provided some details of the stages of the design process • acknowledged some of the assistance that was given in conducting and communicating the design process • included a description of how their invention or innovative product is used and operated • language used in written documentation does not always reflect students own authentic voice and understanding*
2	<p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> • built an invention or innovative product • gathered little to no background research • had a basic understanding of the technological concepts related to the innovation • demonstrated basic skills in the construction of a product • did not complete a risk assessment and gathered minimal appropriate materials and technologies • demonstrated no creativity in the design process • no testing of the invention or innovative product to refine and improve the design • did not detail the progress of the investigation in a logbook provided • no acknowledgment of assistance given in conducting and communicating the design process • included an incomplete description of how their invention or innovative product was used and operated • language used does not reflect students own authentic voice and understanding
1	<p>The student has provided evidence that they:</p> <ul style="list-style-type: none"> • attempted to build an invention or innovative product • gathered little to no background research • had minimal understanding of the related technological concepts • made an invention or product with poor workmanship and limited documentation • did not complete a risk assessment and gathered minimal appropriate materials and technologies • demonstrated no creativity in the design process • no testing of the invention or innovative product to refine and improve the design • did not detail the progress of the investigation in a logbook • failed to acknowledge assistance given • failed to describe how the invention or innovative product is used or operated • language used does not reflect students own authentic voice and understanding