

Old	New	NC	Research	Designing	Making	Testing & Evaluation
A*	9		<p>Discrimination shown when selecting and acquiring relevant research that will promote originality in designing. Excellent understanding and analysis of the design context.</p> <p>Specific design criteria identified, reflecting the analysis undertaken</p> <p>A clear target market identified and a comprehensive user profile.</p>	<p>Imaginative and innovative ideas have been developed, demonstrating creativity, flair and originality with further developments made to take account of ongoing research</p> <p>An excellent design strategy, with clear evidence of a planned approach, adopted throughout</p> <p>The implications of a wide range of issues including social, moral, environmental and sustainability, are taken into consideration and inform the development of the design proposals</p> <p>Excellent development work through experimentation with a wide variety of techniques and modelling (including CAD where appropriate) in order to produce a final design solution</p> <p>Excellent materials/ingredients and components selected with full regard to their working properties</p> <p>Fully detailed and justified product/manufacturing specification taking full account of the analysis undertaken</p>	<p>Final outcome(s) shows an excellent making/modelling/finishing skills and accuracy</p> <p>Selected and used appropriate tools, materials and/or technologies including, where appropriate, CAM correctly, skilfully and safely</p> <p>Worked independently to produce a rigorous and demanding outcome</p> <p>Quality controls are evident throughout every required stage of the project and is clearly recorded, justifying how accuracy has been achieved.</p> <p>The outcome is clearly a commercially viable product and is suitable for the target market</p>	<p>Detailed testing and evaluation as appropriate throughout the designing and making process taking account of client/user or third party opinion</p> <p>Evaluate and justify the need for modifications to the product and consideration given as to how the outcome might need to be modified for commercial production</p>
A*	8		<p>Comprehensive analysis of relevant and focused research undertaken</p> <p>Clear design criteria identified, reflecting the analysis undertaken</p> <p>Target market identified and the intended consumer/user profiled</p>	<p>Imaginative and innovative ideas have been developed, demonstrating creativity, flair and originality.</p> <p>A coherent and appropriate design strategy, with evidence of a planned approach, adopted throughout</p> <p>The implications of a wide range of issues including social, moral, environmental and sustainability, are clearly outlined.</p> <p>Excellent development work through experimentation with a variety of techniques and modelling (including CAD where appropriate) in order to produce a final design solution</p> <p>Materials/ingredients and components are selected independently with full regard to their working properties</p> <p>Fully detailed product/manufacturing specification taking full account of the analysis undertaken</p>	<p>Final outcome(s) shows a high level of making/modelling/finishing skills and accuracy</p> <p>Selected and used appropriate tools, materials and/or technologies including, where appropriate, CAM correctly, skilfully and safely</p> <p>Worked independently to produce a challenging outcome</p> <p>Quality controls are evident throughout the project and it is clear how accuracy has been achieved.</p> <p>The outcome has the potential to be commercially viable and is suitable for the target market</p>	<p>All aspects of the final outcome have been tested against the design criteria and/or the product/ manufacturing specification.</p> <p>Evaluate the need for modifications to the product and consideration given as to how the outcome might need to be modified for commercial production</p>
A	7		<p>An excellent understanding and analysis of the design context.</p> <p>An excellent analysis of relevant products or systems undertaken.</p> <p>An excellent analysis of relevant research and context.</p> <p>Design criteria which clearly reflect the analysis undertaken.</p> <p>A clear target market for product has been identified.</p>	<p>Imaginative ideas demonstrating creativity, which are further developed to take account of ongoing research</p> <p>Development of design proposals take into account all of the main aspects relating to a variety of social, moral, environmental and sustainability issues</p> <p>Thorough development work achieved through working with a wide variety of techniques and modelling (including CAD where appropriate)</p> <p>Appropriate materials/ingredients and components are carefully selected with full regard to their working properties</p> <p>Product/manufacturing specification is complete and reflects key aspects of the analysis undertaken</p>	<p>Final outcome shows an excellent level of making/modelling/finishing skills</p> <p>Independently selected and used appropriate tools, materials and/or technologies including, where appropriate, CAM correctly and safely</p> <p>Outcome demonstrates a high level of demand</p> <p>Quality control checks are evident throughout the manufacture of the product</p> <p>The outcome is suitable for the target market and could be commercially viable</p>	<p>Appropriate testing and evaluation evident throughout the designing and making process</p> <p>Evaluate and justify the need for improvements or modifications to the product</p>
B	6	EP	<p>A good understanding and analysis of the design context.</p> <p>A good analysis of relevant products or systems undertaken.</p> <p>A good analysis of relevant research and context.</p> <p>Design criteria which reflect the analysis undertaken.</p> <p>A target market for product has been identified.</p>	<p>Imaginative ideas demonstrating a degree of creativity</p> <p>Development of design proposals take into account the main aspects relating to a variety of social, moral, environmental and sustainability issues</p> <p>Good development work achieved through working with a variety of techniques and modelling (including CAD where appropriate)</p> <p>Appropriate materials/ingredients and components selected with regard to their working properties</p>	<p>Final outcome shows very good level of making/modelling/finishing skills</p> <p>Selected and used appropriate tools, materials and/or technologies including, where appropriate, CAM correctly and safely</p> <p>Outcome demonstrates a good level of demand</p> <p>Quality control checks applied in the manufacture of the product</p> <p>The outcome is suitable for the target market and could be commercially viable with</p>	<p>Most aspects of the final outcome have been tested against the design criteria and/or the product/ manufacturing specification</p> <p>Evaluate the need for improvements or modifications to the product</p>

				Product/manufacturing specification is complete and reflects most aspects of the analysis undertaken	further development	
B/C	5	8	An understanding and analysis of the design context Design criteria reflects most of the analysis undertaken Considerations have been taken of the likely consumer/user	Design ideas show creativity and further development An appropriate design strategy, with evidence of planning, adopted for aspects Developments of design solutions are influenced by factors relating to social, moral, environmental and sustainability issues Development work achieved through working with a range of techniques and modelling (including CAD where appropriate) Materials/ingredients and components selected with regard to their working properties Product/manufacturing specification reflects most aspects of the analysis	Final outcome shows good level of making/modelling/finishing skills Used appropriate materials, components, equipment and processes correctly and safely (including CAM) Parts of outcome show high levels of demand Applied quality control checks throughout aspects of the making. The outcome requires little further development in order to be suitable for the target market	Evidence of some testing and evaluation leading to the production of the final outcome Some improvements and modifications to product recommended
C	4	7	Basic understanding and analysis of the design context Some product analysis undertaken Analysed of most of the research material and the context Some consideration has been taken of the likely consumer/user	Design ideas show some degree of creativity and further development Developments of design solutions are influenced to some extent by factors relating to social, moral, environmental and sustainability issues Adequate development work achieved through working with a range of techniques and modelling (including CAD where appropriate) Materials/ingredients and components selected with some regard to their working properties	Final outcome shows an adequate level of making Used appropriate materials, components, equipment and processes correctly and safely (including CAM) Parts of outcome show high levels of demand Applied quality control checks broadly but superficially The outcome requires further development in order to be suitable for the target market	Some evidence of testing against the design criteria and/or the product/manufacturing specification Some improvements to product suggested
D/E	3	6	Limited understanding of the design context Little evidence of research. Design criteria is lacking in any detail.	Ideas show some variation in approach or concept Development work is lacking in detail but does make reference to a number of techniques and modelling (including CAD where appropriate) Materials/ingredients and components selected with limited regard to their working properties	Final outcome is largely complete and represents a basic level of making Used materials, components and equipment correctly and safely (including CAM if appropriate) Some aspects of outcome are demanding	Minimal testing and evaluation throughout the designing and making process Limited mention of some improvements or modifications that could be made to the product
E/F	2	5	Provided minimal evidence of research and analysis of context Design criteria is very general and lacking in any detail	Ideas are lacking in imagination with minimal development or further research Materials/ingredients and components selected with little regard to their working properties Produced a simple specification.	Final outcome is largely incomplete or represents a low level of making Worked with some assistance to produce outcome	Limited testing against the specification Limited mention of improvements or modifications that could be made to the product
F/G	1	4	Design criteria is unclear and lacking in any detail	Ideas show no imagination with minimal development or further research No development work undertaken	Final outcome is incomplete or low level of making Final outcome was made with close supervision	No testing against the specification
Foundation			Design criteria is unclear	A basic design with no detail	No outcome	No testing