

## SECTION 3: INVESTIGATING THE DESIGN CONTEXT

1-2	3-4	5-6	7-8	Mark
			Give nomination criteria when selecting and appraising relevant research that demonstrates originality in designing	
Limited understanding of analysis of design context	Basic understanding and analysis of the design context	Good understanding and analysis of the design context	Excellent understanding and analysis of the design context	
Minimal analysis of either products or systems undertaken	Some analysis of related products or systems undertaken	Good analysis of relevant products or systems undertaken	Detailed analysis of relevant existing products or systems undertaken related to design intentions	
Provided little evidence of research and analysis of context	Made a superficial analysis of most of the research material and context	Good analysis of relevant research and context	Comprehensive analysis of relevant and focused research undertaken	
Design criteria is very general and lacking in any detail	Design criteria refers to most of the analysis undertaken	Design criteria which reflects the analysis undertaken	Clear and specific design criteria identified, reflecting the analysis undertaken	
Limited understanding of the target market/user system	Some consideration has been taken of the likely requirements	Target market for product has been identified	Target market identified and the intended economy/user profiled	

## SECTION 2: DEVELOPMENT OF DESIGN PROPOSAL (including modelling)

D-1	D-2	D-3	D-4	D-5	Mark
Ideas are lacking in imagination with minimal development in further research	Ideas show some variation in approach in design	Design ideas show some degree of creativity and further development	Imaginative ideas demonstrating a degree of creativity, which are further developed to take account of ongoing research	Imaginative and innovative ideas have been developed, demonstrating creativity, clear and originality. Further developments made to take account of ongoing research	
Little evidence of a logical approach being adopted, with no indication of planning	A limited design strategy, with minimal planning, is evident	An appropriate design strategy, with some evidence of planning, adopted for some aspects	An appropriate design strategy, with evidence of planning, adopted for most aspects	A coherent and appropriate design strategy, with clear evidence of a planned approach, adopted throughout	
Development work shows little consideration of social, moral, environmental and sustainability issues	Some consideration taken of social, moral, environmental and sustainability issues in development of design solutions	Development of design solutions are influenced by some relevant key factors relating to social, moral, environmental and sustainability issues	Development of design proposals take into account key main aspects relating to a variety of social, moral, environmental and sustainability issues	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	
Basic development work, other than using a limited range of techniques	Development work is lacking in detail but makes reference to a number of techniques and modelling (including CAD where appropriate)	Appropriate development work achieved through working with a range of techniques and modelling (including CAD where appropriate)	Good development work achieved through working with a variety of techniques and modelling (including CAD where appropriate)	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	
Materials/ingredients and components selected with little regard to their working properties	Materials/ingredients and components selected with limited regard to their working properties	Materials/ingredients and components selected with some regard to their working properties	Appropriate materials/ingredients and components selected with regard to their working properties	Appropriate materials/ingredients and components selected with full regard to their working properties	
Produced a simple product/manufacturing specification which reflects most relevant aspects of analysis	Limited product/manufacturing specification which reflects most relevant aspects of analysis	Product/manufacturing specification reflects most aspects of the analysis	Product/manufacturing specification is complete and reflects key aspects of the analysis	Fully detailed and justified product/manufacturing specification taking full account of the analysis	

PAUL TROIAN, JR., BIRMINGHAM

0-5	6-10	11-15	16-20	21-25	26-30	Notes
Final outcome is incomplete or represents an underdeveloping level of making/ modelling/ finishing skills	Final outcome is largely complete and represents a basic level of making/ modelling/ finishing skills	Final outcome shows good level of making/ modelling/ finishing skills	Final outcome shows very good level of making/ modelling/ finishing skills	Final outcome(s) shows a high level of making/ modelling/ finishing skills and accuracy		
Used materials, components and equipment safely under close supervision	Used materials, components and equipment correctly and safely (including CAH if appropriate)	Used appropriate materials, components, equipment and processes correctly and safely (including CAH)	Selected and used appropriate tools, materials and/or technologies including where appropriate, CAM correctly and safely	Selected and used appropriate tools, materials and/or technologies including where appropriate, CAH correctly, skillfully and safely		
Worked with some assistance to produce outcome of limited demand	Some aspects of outcome are demanding	Parts of outcome show high levels of demand	Outcome demonstrates a high level of demand	Worked independently to produce a rigorous and demanding outcome		
There is limited evidence of any quality control and levels of accuracy are minimal	Some evidence of limited quality control applied throughout the process	Applied quality control checks broadly but superficially	Quality control checks applied in the manufacture of the product	Quality controls are evident throughout the project and it is clear how accuracy has been achieved		
The outcome has significant weaknesses which limit its suitability for the target market	The outcome has some weaknesses which limit its suitability for the target market	The outcome requires further development in order to be suitable for the target market	The outcome is suitable for the target market and could be commercially viable with further development	The outcome has the potential to be commercially viable and is suitable for the target market		

## SECTION 4: TESTING AND EVALUATIONS

10-2	10-5	10-6	10-7	Notes
Minimal testing and evaluation throughout the designing and making process	Evidence of some testing and evaluation leading to the production of the final outcome	Appropriate testing and evaluation evident throughout the designing and making process	Detailed testing and evaluation as appropriate throughout the designing and making process taking account of client/user or third party opinion	
Limited or no testing of final outcome against the design criteria and/or the product/manufacturing specification	Some evidence of testing against the design criteria and/or the product/manufacturing specification	Most aspects of the final outcome have been tested against the design criteria	All aspects of the final outcome have been tested against the design criteria and/or the product/manufacturing specification	
Limited mention of some improvements or modifications that could be made to the product	Some improvements or modifications to product suggested	Evaluate and justify the need for improvements or modifications to the product	Evaluate and justify the need for modifications to the product and consideration given as to how the outcome might need to be modified	

## SELECTING A COMMUNITY-LEVEL THEORY

1-3	1-4	1-5	Remarks
Design folder shows extensive duplication of information and a lack of brevity and focus resulting in irrelevant content	Design folder shows some skill in choice of material for inclusion but includes some irrelevant content	Design folder is focused, concise and relevant and demonstrates an appropriate selection of material for inclusion	
Notes and diagrams communicated at a simplistic level with a limited grasp of the concepts involved and a limited use of technical vocabulary	Notes show some communication with some clarity and with some use of technical language	All diagrams communicated in a clear and coherent manner with appropriate use of technical language	
Numerical errors in grammar, punctuation and spelling	There are a small number of errors in grammar, punctuation and spelling	The text is legible, easily understood and shows a good grasp of grammar, punctuation and spelling	

<b>Grade Boundaries:</b> These are approximate as they change yearly. (You need to be well within the boundary to be certain of earning that grade!)	A <sup>+</sup>	95	B	85	D	65	F	25	<b>Total Marks</b>
	A	79	C	70	E	57	G	15	

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