HAYDOCK HIGH SCHOOL

Design Technology Progress Grid

NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
9	- A highly independent and personal investigation of the chosen topic. - A design context that has been analysed in great detail with all aspects covered. - An original piece of complete research that is non-bias towards a desired outcome. - Excellent understanding and analysis of the design context. - A complete analysis of relevant existing products or systems undertaken related to design intentions. - Comprehensive analysis of relevant and focussed research undertaken. - Clearly identified and specific design criteria,	- An independent approach to all aspects listed below. - A complete range of imaginative and innovative ideas that have been developed, demonstrating creativity, flair and originality. Further developments made to take account of ongoing research. - A coherent and appropriate design strategy, with clear evidence of a planned approach, adopted throughout. - The implications of all issues including social, moral, environmental and sustainability, are taken into consideration and inform the development of the design proposals. - 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.	- Work that has required the use of equipment beyond that of the classroom. - Work that represents commercial quality and viability. - Work that clearly defines the user and the product is tested within its intended market. 100% Independence throughout the project.	- Testing that has taken place at a commercial level. - An improvement plan for the product based upon the findings of the commercial testing. - A new CAD development based upon evaluation of testing, highlighting the key component changes.

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
	reflecting the analysis undertaken.	- The use of appropriate materials and components that have been selected with full regard to their working properties. - A fully detailed and justified product/manufacturing specification taking full account of the analysis undertaken.		
8	- Discrimination when selecting and acquiring relevant research that will promote originality in designing. - An excellent understanding and analysis of the design context. - A detailed analysis of relevant existing products or systems undertaken related to design intentions. - Comprehensive analysis of relevant and focussed research undertaken. - A Clearly identified and	- A wide range of Imaginative and innovative ideas have been developed, demonstrating creativity, flair and originality. Further developments made to take account of ongoing research. - A coherent and appropriate design strategy, with clear evidence of a planned approach, adopted throughout. - Evidence that the have considered 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. - Excellent development work through	- A final outcome(s) that shows a very high level of making/modelling/finishing skills and accuracy. - An ability to select and use appropriate tools, materials and/or technologies including, where appropriate, CAM correctly, skilfully and safely; beyond what may be available within school. (if required) - Work independently to a rigorous and demanding outcome. - Evidence of quality controls throughout the project and it is clear how accuracy has been achieved. - An outcome that has the potential to be commercially viable and is suitable for the target market.	- Detailed testing and evaluation as appropriate throughout the designing and making process taking account of client/user or third party opinion. - All aspects of the final outcome that has been tested against the design criteria and/or the product/manufacturing specification. - And justifies the need for modifications to the product and consideration given as to how the outcome might need to be modified for commercial production.

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
	specific design criteria that reflecting the analysis undertaken. - An identified target market that has the intended consumer/user clearly profiled.	experimentation with a wide variety of techniques and modelling (including CAD where appropriate) in order to produce a final design solution. - Evidence that the appropriate materials and components have been selected with a full regard to their working properties. - A fully detailed and justified product/manufacturing specification taking full account of the analysis undertaken.		
7	- Some discrimination shown when selecting and acquiring relevant research that will promote originality in designing. - A very good understanding and analysis of the design context. - A detailed analysis of relevant existing products or systems undertaken	- Imaginative and innovative ideas that have been developed, demonstrating creativity, flair and originality. Further developments made to take account of ongoing research. - An appropriate design strategy, with clear evidence of a planned approach, adopted throughout. - Evidence that the implications of a range of issues including social, moral, environmental and sustainability, are taken into consideration and inform the	- A final outcome(s) that shows a high level of making/modelling/finishing skills and accuracy. - The ability to select and use appropriate tools, materials and/or technologies including, where appropriate, CAM correctly, skilfully and safely. - Work independently and achieves a demanding outcome. - Evidence of quality controls throughout the project and it is clear how accuracy has been achieved.	- Detailed testing and evaluation as appropriate throughout the designing and making process taking account of client/user or third party opinion. - All aspects of the final outcome have been tested against the design criteria and/or the product. - And justifies the need for modifications to the product and consideration given as to how the outcome could be

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
	related to design intentions. - A very good analysis of relevant and focussed research undertaken. - A Clearly identified design criteria, reflecting the analysis undertaken. - An identified target market with the intended consumer/user profiled.	development of the design proposals. - Very good development work through experimentation with a wide variety of techniques and modelling (including CAD where appropriate) in order to produce a final design solution. - The uses of appropriate materials and components have been selected with full regard to their working properties. - A detailed and justified product/manufacturing specification taking full account of the analysis undertaken.	- An outcome that has the potential to be commercially viable and is suitable for the target market.	modified. - A high level of questioning that has been applied to the process. - A very high level of questioning that has been applied to the process.
6	- A good understanding and analysis of the design context. - A good analysis of relevant products or systems undertaken. - A good analysis of relevant research and context used to develop ideas.	- Imaginative ideas that demonstrate a degree of creativity, which are further developed to take account of ongoing research. - An appropriate design strategy, with evidence of planning, adopted for all aspects. - Development of design proposals that take into account the main aspects relating to a variety of social,	- A final outcome that shows a very good level of making/modelling, with a high level finish. - The ability to select the appropriate tools, materials and/or technologies including, where appropriate, CAM correctly and safely. - Work with an outcome that demonstrates a very high level of demand.	- Appropriate testing and evaluation evident throughout the designing and making process. - Most aspects of the final outcome that have been tested against the design criteria. - And justifies the need for improvements or modifications to the product.

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
	- A design criteria that reflects the analysis undertaken. - Research that identifies the target market for product.	moral, environmental and sustainability issues. - Good development work achieved through working with a variety of techniques and modelling (including CAD where appropriate). - Evidence that appropriate materials and components have been selected with regard to their working properties. - A product/manufacturing specification that is complete and reflects key aspects of the analysis undertaken.	- Evidence of quality control checks that have been applied in the manufacture of the product. - An outcome that is suitable for the target market and could be commercially viable with further development.	- A high level of questioning that has been applied to the process.
5	- An understanding of analysis and the design context is good in parts. - Analysis of relevant products or systems has been undertaken and used in parts. - Analysis of relevant research and context used to develop ideas. - A design criteria which reflects the analysis	- Imaginative ideas that demonstrate a degree of creativity and good development. - An appropriate design strategy, with evidence of planning, adopted for most aspects. - Development of design proposals that take into account some of the main aspects relating to a variety of social, moral, environmental and sustainability issues. - Good development work achieved	- A final outcome that shows good level of making/modelling/finishing skills. - The ability to select and use the appropriate tools, materials and/or technologies including, where appropriate, CAM correctly and safely; with minimal assistance. - Work with an outcome that demonstrates a high level of demand. - Evidence of quality control checks that have been applied in the manufacture of the product.	- A good amount of quality questioning and testing is evident throughout the designing and making process. - Most aspects of the final outcome that have been tested against the design criteria. - The ability to evaluate and justify the need for improvements or modifications to the product.

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
	undertaken. - Research that identifies the target market for product.	through working with a variety of techniques and modelling (including CAD where appropriate). - The use of appropriate materials and components selected with regard to their working properties. - A product/manufacturing specification that is complete and reflects all key aspects of the analysis undertaken.	- An outcome that is suitable for the target market and could be commercially viable with further development	
4	- A partial understanding and analysis of the design context. - Some analysis of multiple related products or systems undertaken. - A superficial analysis of most of the research material and the context. - A design criteria that reflects most of the analysis undertaken. - Research that ensures accurate consideration has been taken of the likely consumer/user.	- Design ideas that show a degree of creativity and further development. - An appropriate design strategy, with some evidence of planning, adopted for some aspects. - Developments of design solutions that are influenced to some extent by factors relating to social, moral, environmental and sustainability issues. - Good development work achieved through working with a range of techniques and modelling (including CAD where appropriate). - Evidence that materials and components have been selected with	- A final outcome that shows a good level of making/modelling/finishing skills. - The understanding to use the appropriate materials, components, equipment and processes correctly and safely (including CAM). - An outcome that, in parts, shows good levels of demand. - Evidence that they have applied quality control checks broadly but superficially. - An outcome that requires further development in order to be completely suitable for the target market.	- A good level of testing and evaluation leading to the production of the final outcome. - Some evidence of testing against the design criteria and/or the product/ manufacturing specification. - Some improvements or modifications to product suggested. - A good level of questioning applied to the process.

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
		some regard to their working properties. - A product/manufacturing specification that reflects most aspects of the analysis.		
3	- A basic understanding and analysis of the design context. - Some analysis of related products or systems undertaken. - Superficial analysis of some of the research material and the context. - A design criteria that reflects some of the analysis undertaken withe some understanding. - Some consideration of the likely consumer/user.	- Design ideas show some degree of creativity and further development. - An appropriate design strategy, with some evidence of planning. - Some design solutions that are influenced to an extent by factors relating partly to social, moral, environmental and sustainability issues. - Adequate development work achieved through working with a range of techniques and modelling (including CAD where appropriate). - That the use of materials and components selected were chosen with regard to their working properties. - A product/manufacturing specification that reflects some key aspects of their analysis.	- A final outcome that is complete and represents a basic level of making/ modelling/finishing skills. - The ability to use materials, components and equipment correctly and safely (including CAM if appropriate). - Some aspects of the outcome that are demanding. - Some evidence of limited quality control that has applied throughout the process. - An outcome that has some weaknesses but it would be suitability for the target market.	- Some testing and evaluation leading to the production of the final outcome. - Some evidence of testing against the design criteria and/or the product/ manufacturing specification. - Some improvements or modifications to product suggested. - A good level of questioning that has been applied to the process.

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
2	- Limited understanding or analysis of design context. - Minimal analysis of products or systems undertaken. - Some evidence of research and analysis of the context. - A design criteria that is very general and lacking in understanding. - Limited understanding of the target market/user evident.	- Design ideas that show some variation in approach or concept. - A limited design strategy, with minimal planning, is evident. - Some consideration taken of social, moral, environmental and sustainability issue in development of design solutions. - Development work that's lacking in detail but references a number of techniques and modelling (including basic CAD where appropriate). - A selection of materials and components with limited regard to their working properties. - A limited product/manufacturing specification that reflects the most obvious features of analysis.	- A final outcome that is largely complete and represents a basic level of making/ modelling/finishing skills. - The ability to use materials, components and equipment correctly and safely (including CAM if appropriate). - Some aspects of outcome that are demanding but they have been assisted with.. - Some evidence of limited quality control that has been applied throughout the process. - An outcome that has some weaknesses but it may meet the needs of the target market..	- Some evidence of basic testing and evaluation throughout the designing and making process. - Basic testing of final outcome against the design criteria and/or the product. - The ability to recognise the need for open questioning.
1	- A very limited understanding or analysis of design context. - Minimal analysis of a single products or systems undertaken. - Very little evidence of research and analysis of	- Some design ideas but they are lacking in imagination with minimal development or further research. - Little evidence of a logical approach being adopted, with no indication of planning. - Development work showing little consideration of social, moral,	- A final outcome that is incomplete or represents an undemanding level of making/ modelling/finishing skills. - The ability to use materials, components and equipment safely under supervision. - Work with some assistance to produce an outcome of limited demand.	- Minimal testing and evaluation throughout the designing and making process. - Limited or no testing of final outcome against the design criteria.

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NEW	Research & Investigating the Design Context The student displays:	Development of Design Proposals (Inc. Modelling) The student displays:	Making The student produces:	Testing & Evaluation The student evidences:
	the context. - A design criteria that is very general and lacking in any detail. - A very limited understanding of the target market/user evident.	environmental and sustainability issues. - A basic level of development work using a limited range of techniques. - Materials and components with little regard to their working properties. - Produced a simple product/manufacturing specification which is general in nature.	- Limited evidence of any quality control and levels of accuracy are minimal. - An outcome that has some weaknesses which limit its suitability for the target market.	
B	- The ability to gather a variety of relevant research. - The ability to provide a written opinion of the research. - The ability to produce a basic design criterion.	- Designs ideas that are lacking in imagination. - No evidence of a logical approach being adopted, with no planning. - Development work but that shows no consideration of social, moral, environmental and sustainability issues. - A knowledge of materials and components but they are selected incorrectly in relation to their properties.	- Some parts of the final outcome, but it is mainly incomplete or represents an undemanding level of making and /finishing skills. - The ability to use some materials, components and equipment safely under close supervision. - Work with lots of assistance for an outcome that is of limited demand. - Limited evidence of any quality control and levels of accuracy are minimal. - An outcome that has significant weaknesses which limit its suitability for the target market.	- Minimal testing throughout the designing and making process. - Limited or no testing of final outcome against the design criteria.
B1	- The ability to gather relevant research in limited quantity.	- The ability to produce a creative design. - Little evidence of planning for design	- A final outcome that is in pieces and not finished. - A final outcome that is basic in its skills	- Limited ability when discussing the need for some improvements or modifications

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	- The ability to provide a written opinion of the research.	development. - A single design idea.	level. - No evidence of any quality control checks. - An outcome that does have a user in mind but does not meet their requirements.	that could be made to the product.