Year 10 Resistant Materials			
1 Research & Analysis	 Some analysis of related products or systems undertaken. Design criteria reflects most of the analysis undertaken. Some consideration has been taken of the likely consumer/user. 	 Good analysis of relevant products or systems undertaken. Design criteria which reflects the analysis undertaken. Target market for product has been identified. 	 Detailed analysis of relevant existing products or systems undertaken related to design intentions. Clear and specific design criteria identified, reflecting the analysis undertaken. Target market identified and the intended consumer/user profiled.
2 Designing and Developing Skills	 Design ideas show some degree of creativity and further development. Adequate development work achieved through working with a range of techniques and modelling (including CAD where appropriate). An appropriate design strategy, with some evidence of planning, adopted for some aspects. 	 Imaginative ideas demonstrating a degree of creativity, which are further developed to take account of ongoing research. Good development work achieved through working with a variety of techniques and modelling (including CAD where appropriate). An appropriate design strategy, with evidence of planning, adopted for most aspects. 	 Imaginative and innovative ideas have been developed, demonstrating creativity, flair and originality. Further developments made to take account of ongoing research. 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. A coherent and appropriate design strategy, with clear evidence of a planned approach, adopted throughout.
3 Making Skills	 Final outcome shows good level of making/modelling/finishing skills. The outcome requires further development in order to be suitable for the target market. Applied quality control checks broadly but superficially. 	 Final outcome shows very good level of making/modelling/finishing skills. The outcome is suitable for the target market and could be commercially viable with further development. Quality control checks applied in the manufacture of the product. 	 Final outcome(s) shows a high level of making/modelling/finishing skills and accuracy. The outcome has the potential to be commercially viable and is suitable for the target market. Quality controls are evident throughout the project and it is clear how accuracy has been achieved.

Continued on page 2...

Pechnical Knowledge & Understanding - Developments of design solutions are influenced to some extent by factors relating to social, moral, environmental and sustainability issues. - Materials/ingredients and components selected with some regard to their working properties. - Used appropriate materials, components, equipment and processes correctly and safely (including CAM). - Selected and used appropriate, CAM correctly and safely. - Evidence of some testing against the design criteria and/or technologies including, where appropriate, CAM correctly and safely. - Some evidence of testing against the design criteria and/or the product/manufacturing specification. - Some improvements or modifications to product suggested. - Design proposal shows excessive duplication of information and a lack of brevelty and focus resulting in irrelevant content. - Design proposal shows excessive duplication of information and a lack of brevelty and focus resulting in irrelevant content. - Lideas and decisions communicated at a simplistic level with a limited grasp of the concepts involved and a limited use of technical vocabulary. - Numerous errors in grammar, punctuation and spelling. - Design proposal shows a good grasp of grammar, punctuation and spelling. - Design proposal shows a good grasp of grammar, punctuation and spelling. - Design proposal shows a good grasp of grammar, punctuation and spelling. - Design proposal shows a good grasp of grammar, punctuation and spelling. - Design proposal shows a good grasp of grammar, punctuation and spelling. - Design proposal shows a good grasp of grammar, punctuation and spelling. - Design proposal take into account the main aspects relating and commental and sustainability, are taken into consideration and inform the development of the design proposals. Appropriate selected with relation of the formation and safely. - Design proposal shows a proporties. CAM correctly and deviation of the final outcome have been tested against the design commental and understance	Year 10 Resistant Materials			
Evaluation & Testing outcome. Some evidence of testing against the design criteria and/or the product/manufacturing specification. Some improvements or modifications to product suggested. Design proposal shows excessive duplication of information and a lack of brevity and focus resulting in irrelevant content. Design proposal shows excessive duplication of information and a lack of brevity and focus resulting in irrelevant content. Design proposal shows excessive duplication of information and a lack of brevity and focus resulting in irrelevant content. Design proposal shows some skill in choice of material for inclusion but includes some irrelevant content. Most descisions communicated with some use of the concepts involved and a limited use of technical vocabulary. Numerous errors in grammar, punctuation and spelling. Most decisions communicated with some use of the concepts involved and a limited use of technical vocabulary. There are a small number of errors in grammar, punctuation and spelling. Most decisions communicated with some use of the chinical vocabulary. There are a small number of errors in grammar, punctuation and spelling. making process. All aspects of the final outcome have been tested against the design criteria and/or the product/manufacturing specification. Design proposal shows some skill in choice of material for inclusion but includes some irrelevant content. Most decisions communicated with some use of the chinical vocabulary. There are a small number of errors in grammar, punctuation and spelling. There are a small number of errors in grammar, punctuation and spelling. There are a small number of errors in grammar, punctuation and spelling.		 relating to social, moral, environmental and sustainability issues. Materials/ingredients and components selected with some regard to their working properties. Used appropriate materials, components, equipment and processes correctly 	 to a variety of social, moral, environmental and sustainability issues. Appropriate materials/ingredients and components selected with regard to their working properties. Selected and used appropriate tools, materials and/or technologies including, 	 environmental and sustainability, are taken into consideration and inform the development of the design proposals. Appropriate materials/ingredients and components selected with full regard to their working properties. Selected and used appropriate tools, materials and/or technologies including,
Presentation & brevity and focus resulting in irrelevant content. Ideas and decisions communicated at a simplistic level with a limited grasp of the concepts involved and a limited use of technical vocabulary. Numerous errors in grammar, punctuation and spelling. brevity and focus resulting in irrelevant content. Most decisions communicated with some use of technical language. Most decisions communicated with some use of technical language. 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,	5 Evaluation & Testing	 outcome. Some evidence of testing against the design criteria and/or the product/manufacturing specification. 	 making process. Most aspects of the final outcome have been tested against the design criteria and/or the product/manufacturing specification. Evaluate and justify the need for improvements or modifications to the 	 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/manufacturing specification. Evaluate and justify the need for modifications to the product and consideration given as to how the outcome might need to be modified for
		 brevity and focus resulting in irrelevant content. Ideas and decisions communicated at a simplistic level with a limited grasp of the concepts involved and a limited use of technical vocabulary. 	 includes some irrelevant content. Most decisions communicated with some clarity and with some use of technical language. 	 appropriate selection of material for inclusion. All decisions communicated in a clear and coherent manner with appropriate use of technical language. The text is legible, easily understood and shows a good grasp of grammar,