

			Domains of Knowledge				
	Year 7	Year 8	Year 9	AO1: Design & Investigate	AO2: Making	AO3: Analysis & Evaluate	AO4: Technical Knowledge
			9A *	<p>Continuous excellent investigation can be seen throughout all of the work. With an excellent standard of justification and understanding. Relevant and focused understanding of the impact of society including aspects of economic and social effects. Concise and detailed analysis of the work of others that informs all aspect of ideas. A clear investigation of the user with clear explanations of all client's needs and wants. An excellent level of relevant detailed design possibilities showing a high level of depth and knowledge. Appropriate materials and components selected with some quality research considered in regards properties and their availability. An excellent standard model with a variety of model making methods that meets its purpose. Design ideas are creative, imaginative and innovative. They have been designed with a high level of accuracy and consistency considering functionality, aesthetics and innovation.</p>	<p>Detailed evidence of all stages of making covered to an exceptionally high level with industrial practices considered. High level of quality control, ensuring the product is highly accurate. Independent work completed to make an expectal standard Prototype. Uses materials, tools and machines skillfully and consistently. Final products show exceptional high standard quality, product. Product is appropriate for user. High level of making and finish. Tolerances have been met. and product could be commercially viable.</p>	<p>High level of consistent analysis and evaluation throughout project. All aspects of the product have been tested against original brief and specification including third party Good continuous level of evidence of testing against original specification and brief. Excellent standard of evidence of alterations, as a result of sound consideration linked to evaluation. Analysis and evaluation of products is of a high standard and reflect a high level of feedback received from third parties. A manufacturing plan shows an excellent level of detail. All specification points of product evident all justification given. Design brief shows understanding and high level of analysis and evaluation of users needs and wants.</p>	<p>A highly detailed knowledge of the range of the design proposal that identifies tools, materials and or component parts, processes and details of specialist techniques. Outstanding understanding of materials chosen, with recognition that the design and product have met a comprehensive range of different needs. An outstanding understanding of a range of ICT including software has been used to enhance the quality of the final outcome.</p>
		9A *	8A	<p>Continuous investigation can be seen throughout most of the work. With a high standard of justification and understanding. A good understanding of the impact of society including aspects of economic and social effects. Detailed analysis of the work of others that informs most aspect of ideas. A clear investigation of the user with clear explanations of all client's needs and wants. A high level of relevant detailed design possibilities showing a high level of depth and knowledge. Appropriate materials and components selected with some extensive research considered in regards properties. High level of development using a variety of model making and meets its purpose. Design ideas are creative, imaginative and innovative. They have been designed with a level of accuracy and consistency. They consider functionality, aesthetics and innovation.</p> <p>Making:</p>	<p>Detailed evidence of all stages of making covered with industrial practices appropriately considered. Quality control is in place ensuring the product is accurate. Independent work completed to make a high standard Prototype. Can select relevant tools, materials and equipment, they are used and operated with some level of skill, safety. Final products show high level standard level of quality, product. Product is appropriate for user. High level of making and finish. Tolerances have been met.</p>	<p>Excellent level of analysis and evaluation throughout project. All aspects of product has been ttested against original specification and design brief. Excellent continuous level of evidence of testing against original specification and brief. Excellent high standard of evidence of alterations, as a result of sound consideration linked to evaluation. Analysis and evaluation of products is of an excellent high standard and reflect an excellent level of feedback received from third parties. A manufacturing plan shows a very high level of justification linking to product and making. An excellent level of specification points of product evident mostly all justification given. A detailed Design brief produced understanding and high level of analysis and evaluation showing understanding of the users needs and wants.</p>	<p>A detailed knowledge of the range of the design proposal that identifies tools, materials and or component parts, processes and details of specialist techniques. Outstanding understanding of materials chosen, with recognition that the design and product have met a comprehensive range of different needs. An outstanding understanding of a range of ICT including software has been used to enhance the quality of the final outcome.</p>
	9A *	8A	7A	<p>Clear investigation can be seen throughout most of the work. A clear ample amount of justification and understanding. A good understanding of the impact of society including aspects of economic and social effects. Detailed analysis of the work of others that link clearly and direct to ideas. An investigation of user with clear explanation of most of the users needs and wants. 3-4 design ideas that are fit for purpose and explore and show depth of knowledge. Appropriate materials and components selected with some quality research considered in regards properties. High level of development using a variety of model making. Design ideas are creative, imaginative and innovative. They have been designed with a level of accuracy and consistency. They consider functionality, aesthetics and innovation.</p>	<p>All stages of making covered with some areas of detail and industrial practices understood. Quality control is evident throughout the making process. Independent work to make a good standard Prototype. Can select relevant tools, materials and equipment, they are used and operated with some level of skill. Final products show good standard level of quality. Product is appropriate for user. Good level of making and finish and tolerances have been met.</p>	<p>High continuous level of analysis and evaluation throughout project. High level of continuous level of evidence of testing against original specification and brief. Strong evidence of alterations this is as a result of sound consideration linked clearly to evaluation. Analysis and evaluation of products is of a continuous high standard and reflect a high level of feedback received from third parties. A detailed manufacturing plan shows how to make product with high level of detail this is justified and linked to user needs. A high level of specification points of product evident mostly all justification given. A detailed design brief shows understanding and high level of analysis and evaluation of users needs and wants.</p>	<p>A broad knowledge of the design proposal that identifies tools, materials and or component parts, processes and specialist techniques. Excellent consideration of materials chosen, with recognition that the design and product have met a full range of different needs. An excellent understanding of a range of ICT including software has been used to enhance the quality of the final outcome.</p>

8A	7A	6B	Aspects of investigation can be seen throughout most of the work. Ample justification and understanding. A general understanding of the impact of society including aspects of economic and social effects. Detailed analysis of the work of others that link clearly to ideas. An investigation of user with clear explanation of most of the users needs and wants. 3-4 Design ideas that are clear possibilities that show breadth and knowledge. Materials properties considered in limited detail. Appropriate materials and components selected with some research into properties. High standard of model making that is fit for purpose. They have been designed with a good level of accuracy and consistency. They consider functionality, aesthetics and innovation.	All stages of making covered with industrial practices. Quality control is evident throughout the making of the product. Prototype has elements of good quality and is largely accurate. Can select relevant tools, materials and equipment used safely and operated correctly. Final products show good level of quality. Able to work independently to make final product. Product is appropriate for user. Good level of making and finish and large majority of tolerances have been met.	Good continuous analysis and evaluation throughout project. Good continuous level of evidence of testing against original specification and brief. High standard of evidence of alterations, as a result of sound consideration linked to evaluation. Analysis and evaluation of products is of a high standard and reflect a high level of feedback received from third parties. A manufacturing plan shows how to make product with high level of detail. A high level of specification points of product evident mostly all justification given. Design brief shows understanding and high level of analysis and evaluation of users needs and wants.	Design proposal identifies tools, materials and or component parts, processes and specialist techniques. Very good consideration of materials chosen, with recognition that the design and product have met a full range of different needs. An understanding of a range of ICT including software has been used to enhance the quality of the final outcome.
7A	6B	5B	Investigation throughout that has clear justification points mentioned. A general understanding shown about the impact of society which gives detail about economic and social issues. The work of others is analysed and can be linked to ideas. Users needs and wants are clear showing points of understanding. More than two design possibilities identified with depth and breadth of knowledge. Some consideration of properties of materials considered. Good quality of model produced that is fit for purpose. Imaginative ideas have been developed, considering functionality, aesthetics and innovation.	Evidence of most stages of making clear understanding. Evidence of understanding of industrial practices. Good evidence of quality control throughout project. Prototype has elements of quality and is largely accurate. Can select relevant tools, materials and equipment used and generally used safely and operated correctly. Final products show good level of quality most. Product is appropriate for user. Good level of making and finish and tolerances have been met.	Good analysis and evaluation in project. Good evidence of testing against original specification and brief. Good evidence of alterations they are as a result of sound consideration linked to evaluation. Analysis and evaluation of products is good and reflect some good feedback received from third parties. A manufacturing plan shows how to make product with some good detail. Good specification points of product evident with some good justification given. Design brief shows understanding and good analysis and evaluation of users needs and wants.	Design proposal includes very good consideration of materials and or component parts, processes and techniques. Very good consideration of materials chosen with recognition that the design and product have met a range of different needs. ICT software has been used to enhance the quality of the final outcome.
6B	5B	5C	Some investigation throughout with some basic justification. Limited aspects of understanding of the impact of society which include economic and social and these are limited, but investigated. Some analysis of work of others which inform ideas basically. An investigation of the user with some ref to the users needs and want showing understanding. Design possibilities identified and demonstrate aspects of depth and breadth of knowledge. Some consideration of the materials. Model produced that is fit for purpose. Ideas have been developed, considering functionality, aesthetics and innovation	Most stages of making shown with general understanding of making stages, understanding of industrial practices evident. Some evidence of quality control which can be seen within some areas of project. Prototype has some elements of quality and was produced fairly independently. Tools, materials and equipment used safely and operated correctly. Final products show some good elements of quality most. Product is appropriate to for user. Most elements of tolerance can be seen.	Some good analysis and evaluation throughout project. Some good evidence of testing product against original specification and brief. Some aspects of analysis and evaluation throughout project. Some evidence of alterations shows some, they are as a result of sound consideration linked to evaluation. Analysis and evaluation of products is good and reflect some good feedback from received from third parties. A manufacturing plan shows how to make product with some good detail. Good specification points of product evident with some good justification given. Design brief shows understanding and good analysis and evaluation of users needs and wants.	Design proposal includes good consideration of materials and or component parts, processes and techniques. Good consideration of materials chosen with recognition that the design and product can meet a range of different needs.
5B	5C	4C	Basic investigation evident throughout project. Basic understanding of the impact product will have on society based on economic and social effects. Basic identification and description of the work of others that inform ideas. Investigation into the user with reference to the users needs showing some understanding. More than one design possibility demonstrating some knowledge. Basic consideration of materials. Basic development of at least one model. Ideas have been developed with some reference to function, aesthetics and innovation.	Evidence of most stages of making shown. limited evidence of understanding of industrial practices. Some evidence of quality control throughout project. Prototype has some elements of quality. Tools, materials and equipment used and generally used safely and operated correctly. Final products show some elements of quality most. Product is mostly appropriate to for user. Some elements of tolerance can be seen.	Some analysis and evaluation throughout project. Some points made regarding testing and evaluation of product against original specification and brief. Alterations shows some considerations. Analysis and evaluation of products is reasonable and reflect a small amount of feedback from third parties. A plan of how to make product is evident with some detail evident. Some or little specification points of product evident with some justification given. Some understanding of an initial design brief given. Reasonable analysis and evaluation of users needs and wants.	Design proposal includes some consideration of materials and or component parts, processes and techniques. Consideration of materials chosen with a reasonable design and or product.
5C	4C	3D	Some basic investigation evident of the project brief and problem to solve. Some basic understanding of the impact on society based centrally on social or economic effects. Some basic identification and some description of the work of others that may inform some of their ideas. Some investigation into the needs or wants of the user but at a basic level. More than one design possibility produced but with limited depth or knowledge of understanding. Some basic consideration of materials. Basic model made. Ideas have been developed with little reference to function, aesthetics and innovation.	Basic evidence of stages of making shown. Quality control is basic. Prototype is of a basic quality and was made with guidance. Basic Tools, materials and equipment used with close supervision and support. Final products show a basic level of making and finishing skill and are not always appropriate for user. Limited tolerance have been adhered to.	Broad and basic analysis and evaluation throughout project. Basic testing of product against design brief and specification. Alterations shows basic considerations. Analysis and evaluation of products is basic and reflect little feedback from third parties. A basic plan of how to make product is evident. Basic or little specification with limited or no justification given. Basic understanding of any response to an initial design brief given. Basic or little analysis and evaluation of users needs and wants.	Design proposal includes basic consideration of materials and or component parts, processes and techniques. Use of basic materials with a basic design and or a final outcome.

	4C		3D		2F		<p>Developing understanding of the concept of investigation of the project brief and problem to solve. Minimal understanding of any impact on society. Identification of the work of others but little connection of this information to help inform ideas or designs, single user stated. A single design possibility. Limited consideration of materials. Limited development of one model. Design ideas have been developed with limited or no reference to function, aesthetics and ergonomics.</p>	<p>Minimum evidence of stages of making shown. Quality control is minimal which can be seen through out. Prototype is poor quality and was made with a lot of guidance. Basic tools, materials and equipment used with very close supervision and support. Final products show limited level of making and finishing skill and are not always appropriate for user. No tolerance have been adhered to.</p>	<p>Limited analysis and evaluation throughout project. Limited testing of product against original specification and brief. Alterations shows limited considerations. Analysis and evaluation of products is limited and reflect little or no feedback from third parties. A limited plan of how to make product evident. Limited or little specification with limited or no justification given. Limited understanding of any response to an initial design brief given. Limited or little analysis and evaluation of users needs and wants.</p>	<p>Design proposal includes some limited consideration of materials and or component parts, processes and techniques. Use of very basic materials chosen with a basic design and or product.</p>
	3D		2F		U		<p>Minimal understanding of the concept of investigation of the project brief and problem to solve. Minimal understanding of any impact on society. Identification of the work needed but lack of independence to start the investigative work required. A single design possibility often provided. Limited consideration of materials. Limited development of one model. Design ideas have been developed with no reference to function, aesthetics and ergonomics.</p>	<p>Little evidence of stages of making shown. Quality control is inexistent. Prototype is poor quality and was made with a lot of guidance/assistance. Basic tools, materials and equipment used with very close supervision and support. Final products show limited level of making and finishing skill. No tolerance have been adhered to.</p>	<p>Limited analysis and evaluation throughout project. No testing of product against original specification and brief. Minimum understanding of development and/or ability to draw ideas. Limited or little specification with limited or no justification given. Limited understanding of any response to an initial design brief given. Limited or little analysis and evaluation of users needs and wants.</p>	<p>Use of very basic materials chosen with a basic design and or product.</p>
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