

GCSE Design and Technology (2010 onwards)

Unit 1: Creative Design and Make Activities

Candidate Mark Record Booklet (CMRB): (2EP01, 2FT01, 2GR01, 2RM01, 2TT01)

Centre no:						Candidate no:					
Year of examination:						Candidate name:					
Specification no:						Specification name:					

Combined design and make activities:	
Task:	
Brief:	

Separate design and make activities:	
Design Task:	
Design Brief:	
Make Task:	
Make Brief:	

Photographic evidence: Please securely attach, in this space, at least one photograph clearly showing the completed artefact/project.

Centres should use the space on the back page of this booklet for supplementary photographic evidence to support marks awarded for 'make'. The quality of the photographic evidence must be of sufficient quality to enable the moderator to see how and why marks have been awarded. (Include close-up details where necessary).

A maximum of **three** photographs should be used on the CMRB. (Please include more photographs in the candidate portfolio)

Digital cameras may be used but the photographs must **NOT** be digitally enhanced.

Assessment Criteria: Design activity (50 marks)

Investigate (15 marks)									
Stage:	Mark range:						Page ref/comments:		
Analysing the brief (3 marks)	Level of response not worthy of credit	Analysis is superficial leading to unclear design needs.		Analysis is limited with some design needs clarified.		Analysis is detailed with most design needs clarified.		Mark:	Mod:
	0	1	2	3					
Research (6 marks)	Level of response not worthy of credit	Research is superficial and does not focus on the design needs identified in the analysis. Analysis of existing products is insufficient to aid the writing of specification criteria.		Research is general , focusing on some of the design needs identified in the analysis. Product analysis is used to inform the writing of some specification criteria.		Research is selective and focuses on the design needs identified in the analysis. The performance, materials, components, processes, quality and sustainability issues of relevant existing products are explored in sufficient detail to aid the writing of specification criteria.		Mark:	Mod:
	0	1	2	3	4	5	6		
Specification (6 marks)	Level of response not worthy of credit	Specification points are superficial and not justified .		Some specification points are realistic and measurable. Some specification points are developed from research but are not justified.		Most specification points are realistic, technical, measurable and address some issues of sustainability. Specification fully justifies points developed from research.		Mark:	Mod:
	0	1	2	3	4	5	6		

Design (20 marks)															
Stage:	Mark range:													Page ref/comments:	
Initial ideas (12 marks)	Level of response not worthy of credit	Alternative design ideas are similar and simplistic . Ideas are superficial and limited research is used. Limited specification points are addressed.				Alternative design ideas are realistic and workable . Ideas are detailed and relevant research is used. Ideas address most specification points.				Alternative design ideas are realistic, workable and detailed . Ideas demonstrate detailed understanding of materials, processes and techniques and are supported by research information. Ideas address all key specification points.				Mark: <input type="text"/> Mod: <input type="text"/>	
		0	1	2	3	4	5	6	7	8	9	10	11		
Review (4 marks)	Level of response not worthy of credit	General and subjective comments against some specification points. Limited use of user group feedback.				Objective evaluative comments, against most specification points, that consider user group feedback and issues of sustainability .				Mark: <input type="text"/> Mod: <input type="text"/>					
		0	1		2		3		4						
Communication (4 marks)	Level of response not worthy of credit	Use of a range of communication techniques, including ICT where appropriate, with sufficient skill to convey an understanding of design ideas.				Use of a range of communication techniques and media, including ICT and CAD where appropriate, with precision and accuracy .				Mark: <input type="text"/> Mod: <input type="text"/>					
		0	1		2		3		4						

Develop (15 marks)												
Stage:	Mark range:										Page ref/comments:	
Development (9 marks)	Level of response not worthy of credit	Developments from alternative design ideas are minor and cosmetic . Simple modelling is used to test an aspect of the final design proposal against a design criterion.			Developments are appropriate and use details from alternative design ideas to change, refine and improve the final design proposal. Modelling using traditional materials and/or 3D computer modelling is used to test some aspects of the final design proposal against relevant design criteria.			Development is used to produce a final design proposal that is significantly different and improved compared to any previous alternative design ideas. Modelling to scale using traditional materials or 2D and/or 3D computer simulations is used to test important aspects of the final design proposal against relevant design criteria. User group feedback is used in final modifications.				
		0	1	2	3	4	5	6	7	8		
Final design (6 marks)	Level of response not worthy of credit	Final design proposal includes limited consideration of materials and/or component parts, processes and techniques.			Final design proposal includes details of some materials and/or component parts, processes and techniques.			Final design proposal includes technical details of all materials and/or component parts, processes and techniques.				
		0	1	2	3	4	5	6	Mark:	Mod:		

Design activity sub-total:

	Moderated mark:	
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Assessment Criteria: Make activity (50 marks)

Plan (6 marks)									
Stage:	Mark range:						Page ref/comments:		
Production plan (6 marks)	Level of response not worthy of credit	Superficial production plan that outlines some stages of manufacture with limited reference to quality control.		Limited production plan that considers the main stages of manufacture with some reference to appropriate forms of quality control.		Detailed production plan that considers all stages of manufacture in the correct sequence including specific forms of quality control.			
		0	1	2	3	4	5		

Make (38 marks)																												
Stage:	Mark range:																										Page ref/comments:	
Quality of manufacture (24 marks)	Level of response not worthy of credit	Tools, equipment and processes, including CAD/CAM where appropriate, are selected with guidance . Limited understanding of the working properties of materials when selecting to manufacture a product. The task is undemanding . A limited range of skills and processes is used that show little attention to detail in their use.								Tools, equipment and processes, including CAD/CAM where appropriate, are selected with some guidance. Some understanding of the working properties of materials when selecting to manufacture a product. The task offers some challenge. A range of skills and processes is used demonstrating attention to detail in their use.								Tools, equipment and processes, including CAD/CAM where appropriate, are selected for specific uses independently . An appropriate understanding of the working properties of materials when selecting to manufacture a product. The task is challenging . A wide range of skills and processes is used with precision and accuracy .								Note: use of witness statement should be used here to support mark awarded.		
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			24
Quality of outcome (12 marks)	Level of response not worthy of credit	Product includes the manufacture of some good quality component parts that remain either unassembled or poorly assembled and finished. Completed product functions poorly .				Product includes the manufacture of good quality component parts that are generally well assembled and finished. Completed product functions adequately .				Product includes the manufacture of high-quality component parts, accurately assembled and well finished. Completed product is fully functional .																		
		0	1	2	3	4	5	6	7	8	9	10	11			12	Mark:		Mod:									
Health and safety (2 marks)	Level of response not worthy of credit	Demonstrate an awareness of safe working practices for most specific skills and processes.								Demonstrate a high level of safety awareness throughout all aspects of manufacture.								Note: teacher assessed only. No evidence required to support mark awarded.										
		0	1								2									Mark:		Mod:						

Test and evaluate (6 marks)									
Stage:	Mark range:						Page ref/comments:		
Testing and evaluation (6 marks)	Level of response not worthy of credit	<p>One or more simple tests carried out to check the performance and/or quality of the final product.</p> <p>Evaluative comments are subjective and reference a few specification points superficially.</p>	<p>A range of tests carried out to check the performance and/or quality of the final product.</p> <p>Evaluative comments are objective and reference most specification points.</p>		<p>A range of tests carried out to check the performance and/or quality of the final product with justifications.</p> <p>Objective evaluative comments, including user group evaluation, consider the most relevant, measurable specification points in detail, including sustainability issues.</p>				
		<p>*QWC: Use of basic language and the response lacks clarity and organisation.</p> <p>Spelling, punctuation and the rules of grammar used with limited accuracy.</p>	<p>*QWC: Use of some design and technology terms and some focus and organisation.</p> <p>Spelling, punctuation and the rules of grammar used with some accuracy.</p> <p>Some spelling errors may still be found.</p>		<p>*QWC: Use of a range of appropriate design and technology terms and good focus and organisation.</p> <p>Spelling, punctuation and the rules of grammar used with considerable accuracy.</p>				
	0	1	2	3	4	5	6	Mark:	

*Opportunity for students to be assessed on quality of written communication(QWC):
Strand (iii) – ‘organise information clearly and coherently, using specialist vocabulary when appropriate’.

Make activity sub-total:

	Moderated mark:	
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TOTAL:

	Moderated TOTAL:	
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Assessor witness statement

This form should be used by the assessor to support the marks awarded for the selection and skilled use of tools, equipment and processes demonstrated during the **Quality of Manufacture** stage.

Please name component part and list tools, equipment and processes demonstrated on the table below. Insert an 'X' in the relevant box to indicate the level of competence demonstrated in the making of the component part.

Component part	Tools, equipment and processes demonstrated	Selection			Skill		
		With guidance	Some guidance	Independently	Little attention to detail	Attention to detail	Precision and accuracy

Assessor name:			
Assessor signed:		Date:	

Candidate declaration:

I hereby certify that this work has been produced by the student without assistance beyond that which is acceptable under the scheme of assessment. By signing this declaration you also agree to your coursework being used to support Professional Development, Online Support and Training of both Centre-Assessors and Edexcel Moderators. If you have any concerns regarding this please email: D&T@edexcel.com

IMPORTANT: Both the candidate and assessor must sign this form.

Candidate signed:		Date:	
Assessor name:			
Assessor signed:		Date:	

Photographic evidence: Centres should use this space for supplementary photographic evidence to support the marks awarded. A maximum of **three** photographs should be attached to the CMRB. The quality of the photographic evidence must be of sufficient quality to enable the moderator to see how and why marks have been awarded. (Include close-up details where necessary).

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