



## Technology Department Year 10, long term planning

Week	36	37	38	39
W/C Date	25-Jun	2-Jul	9-Jul	16-Jul
Topic	Section A NEA			
Key Objectives	<p>The first section will approximately last 4 weeks and will explore the research needed to design and make a child's toy truck. Students will be given a brief to work from.</p> <ol style="list-style-type: none"> <li>1. Writing a brief</li> <li>2. Task Analysis</li> <li>3. Inspiration board</li> <li>4. Looking at existing products</li> <li>5. Materials Testing</li> <li>6. Ergonomics and Anthropometrics</li> <li>7. Surface finishes</li> <li>8. Toy safety</li> <li>9. Packaging and the law</li> <li>10. Environment and Sustainability</li> <li>11. Enterprise and industry</li> </ol>			
Assessment	<ul style="list-style-type: none"> <li>Analyse and evaluate the working properties of materials including how surface finishes can be applied using a variety of descriptive words and the raw material sources.</li> <li>Formulate a set of concise criteria which address all areas of ACCESS FM using a numeracy and SMSC where applicable.</li> </ul>			
Homework	Continue working on NEA			Revise ahead of Mock Exam.
				Interim Deadline – NEA

<p><b>Department Year 10 grades 3-8 long term plan</b></p> <table border="1"> <tr> <td style="background-color: #008000;"></td> <td>Assessment weeks</td> </tr> <tr> <td style="background-color: #FFA500;"></td> <td>Moderation week</td> </tr> <tr> <td style="background-color: #0000FF;"></td> <td>Data Capture</td> </tr> <tr> <td style="background-color: #FFFF00;"></td> <td>STAR marking</td> </tr> <tr> <td style="background-color: #800080;"></td> <td>Exit Poll</td> </tr> </table>		Assessment weeks		Moderation week		Data Capture		STAR marking		Exit Poll	<p><b>Key Skills to be covered</b></p>
	Assessment weeks										
	Moderation week										
	Data Capture										
	STAR marking										
	Exit Poll										

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
W/C Date	03-Sep	10-Sep	17-Sep	24-Sep	01-Oct	08-Oct	15-Oct		29-Oct	05-Nov	12-Nov	19-Nov	26-Nov	03-Dec	10-Dec	17-Dec		
Topic	ASSESSMENT AND FEEDBACK WEEK	Design Criteria	Design Ideas		Mock Examination	Design Ideas		Mock Assessment Feedback and green penning	Design Ideas	Development	Final development		Modelling					
Key Objectives		Using the research conducted produce a design Criteria	Using the brief given design 1 -15 feasible design solutions.			Using the brief given design 1 -15 feasible design solutions			Using the brief given design 1 -15 feasible design solutions	Using client feedback develop of 3 your design ideas using ACCESS FM.	Final development.		Produce a handmade cardboard model of your final solution.	Produce a scaled CAD Model of your final solution. Carry out any further development and testing.				
Assessment	Green pen STAR marking from previous sheets		A 3 <sup>rd</sup> angle orthographic projection with dimensions, a rendered isometric view and detailed annotation.			A 3 <sup>rd</sup> angle orthographic projection with dimensions, a rendered isometric view and detailed annotation.			<ul style="list-style-type: none"> <li>Generate design proposals against stated design criteria, and to modify their proposals in the light of on-going analysis, evaluation and product development</li> <li>A 3rd angle orthographic projection with dimensions, a rendered isometric view and detailed annotation.</li> </ul>		Use, where appropriate, a range of graphic techniques and ICT (including digital media), Including CAD, to generate, develop, model and communicate design proposals.							
Homework	Use feedback to amend NEA	Revise ahead of Mock Exam.			Complete 100% Sheets			Use feedback to amend NEA	Continue working on development sheets		Continue working final development							
																Interim Deadline – NEA		



## Technology Department Year 10, long term planning

Week	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
W/C Date	07-Jan	14-Jan	21-Jan	28-Jan	04-Feb	11-Feb		25-Feb	04-Mar	11-Mar	18-Mar	25-Mar	01-Apr	08-Apr			
Topic	Final Design	ASSESSMENT AND FEEDBACK WEEK	Plan of manufacture		Manufacture of Final Solution			Manufacture of Final Solution			Evaluation						
Key Objectives				Produce a flow chart or plan on how you intend to manufacture your final solution.		Using images produce a diary of Production as well as a final made product			Using images produce a diary of Production as well as a final made product			Evaluation of made item with Client testing 1. Specification 2. Evaluation 3. Final evaluation 4. Modelling vs Final Product 5. Client testing 6. Spec Check 7. Final Photographs		ASSESSMENT AND FEEDBACK WEEK	Final Amendments to work		
Assessment		Green pen STAR marking from previous sheets	Devise a detailed plan of manufacture using flow charts with systematic check points and quality assurance at all relevant points.		A well manufactured practical outcome which shows development in places to meet the design criteria, a good surface finish and a commercially viable solution			A well manufactured practical outcome which shows development in places to meet the design criteria, a good surface finish and a commercially viable solution			Ensure, through testing, modification and evaluation, that the quality of their products is suitable for intended users and devise modifications where necessary that would improve the outcome(s).				Final comments will be marked and assessment against the GCSE specification and feedback given accordingly.		
Homework			Use feedback to amend NEA											Use feedback to amend NEA			
												Final NEA Deadline		Final Departmental Deadline			

Week	35	36	37	38	39	40	41	42	43	44	45	46	46
W/C Date	29-Apr	06 - May	13-May	20-May		03-Jun	10-June	17-June	24-June	01-July	08-July	15-July	22-July
Topic	Mock Examination Prep work					Mock Examination	Mock Examination	Start Y11 NEA			Mock Assessment Feedback and green penning	Continuation of Section A	
Key Objectives	Design Technology – Core technical principles		Design Technology – Specialist technical principles						<p>The first section will approximately last 4 weeks and will explore the research needed to design and make given product. Students will be given a brief to work from.</p> <ol style="list-style-type: none"> <li>Writing a brief</li> <li>Task Analysis</li> <li>Inspiration board</li> <li>Looking at existing products</li> <li>Materials Testing</li> <li>Ergonomics and Anthropometrics</li> <li>Surface finishes</li> <li>Toy safety</li> <li>Packaging and the law</li> <li>Environment and Sustainability</li> <li>Enterprise and industry</li> </ol>			<p>The first section will approximately last 4 weeks and will explore the research needed to design and make given product. Students will be given a brief to work from.</p> <ol style="list-style-type: none"> <li>Writing a brief</li> <li>Task Analysis</li> <li>Inspiration board</li> <li>Looking at existing products</li> <li>Materials Testing</li> <li>Ergonomics and Anthropometrics</li> <li>Surface finishes</li> <li>Toy safety</li> <li>Packaging and the law</li> <li>Environment and Sustainability</li> <li>Enterprise and industry</li> </ol>	
Assessment	This is <b>ALL</b> of the areas of the course and is often considered the <b>THEORY</b> side of the exam paper. This is broken down into <b>core technical principles</b> :		<p><b>All students should develop an in-depth knowledge and understanding of the following specialist technical principles:</b></p> <p>selection of materials or components/ forces and stresses / ecological and social footprint / sources and origins / using and working with materials / stock forms, types and sizes / scales of production / specialist techniques and processes / surface treatments and finishes.</p>				Analyse and evaluate the working properties of materials including how surface finishes can be applied using a variety of descriptive words and the raw material sources. Formulate a set of concise criteria which address all areas of ACCESS FM using a numeracy and SMSC where applicable.		Analyse and evaluate the working properties of materials including how surface finishes can be applied using a variety of descriptive words and the raw material sources. Formulate a set of concise criteria which address all areas of ACCESS FM using a numeracy and SMSC where applicable.				
	Revise ahead of Mock Exam.						Complete 100% Sheets						