

## Curriculum Map – Long Term Planning

**Subject: DESIGN TECHNOLOGY**

**Key stage: 3**

Year	Autumn Term	Spring Term	Summer Term	Cross curricular links	Social Development	Careers/Further Education			
<b>KS3</b>	<u>Autumn 1</u>		<u>Spring 1</u>		<p><b>SCIENCE</b> Forces Plastics Power Light</p> <p><b>MATHS</b> Angles Measuring Statistics Time Number grids</p> <p><b>SOCIAL SKILLS</b> Team work Social interaction Problem solving SMCS Religion and Beliefs British Values Remembrance Sunday</p> <p><b>ENGLISH</b> Speaking and listening Reading Recording Communication Use of correct punctuation War Poetry</p> <p><b>ICT</b> Vectoring</p>	<p><b>COMMUNICATION</b> Group cohesion Team work Analysing and correcting Peer teaching Specialised language</p> <p><b>MANAGING MYSELF</b> Managing disappointment Competition Working with different people Teamwork Individual targets</p> <p><b>RESILIENCE</b> Learning new skills Setting targets Reaching targets Skill Development Skill Sharing</p>	<p><b>FURTHER EDUCATION</b> NCFE Carpentry BTEC level 1,2 and 3.</p> <p><b>APPRENTICESHIP</b></p> <p>Fine furniture <b>CAREERS</b> Joiner Laser specialist</p>		
	Safety	Safety poster	Face marks	Use of face marks, side and edge				Own project work Design	Seasonal project
	Use of simple hand tools	Saws and squares	Chiselling	Simple housing joint to be constructed				Own project work Modelling	Development and modification
	Introduction of power tools	Workshop machines	Mothering Sunday 22/3	Jewellery boxes				Realisation	Make
	Marking out and sawing to a line	Use of measuring tools	Mothering Sunday 22/3	Laser engraving of boxes for personalisation				Realisation	Make
	Assembly of components	Project requiring assembly	Design drawing	3pt perspective or isometric drawing				Evaluation	Evaluate and assessment.
	Introduction of laser cutting	How it works, demonstration	Light boxes	Use of light box to transfer drawing and over laying.					
	Laser engraving	Engrave picture from stock							
	<u>Autumn 2</u>		<u>Spring 2</u>					<u>Summer 2</u>	
	Internet laser transformation	Research and adjust settings	Furniture design	Looking at styles of design				Laser PDF conversion	Research into internet vector files
	Completion of work	Submit to CBo or MHi for cutting	Chair/Table design	Choosing a design form internet investigation				Trace cutting	Use of RD Works
	Combining Materials	Design using two materials	Modelling	Modelling the same in 10mm square.				Line bending machine	Use of strip heater
	Joining Materials	Forming two materials with adhesives	Realisation	Development				Vacuum forming	Drafting over models
	Nano materials	Show uses and forms	Realisation	Development				3D laser work	Walls and structures
Xmas themes	realisation	Realisation	Evaluation and assessment.	Summer activities	Own project				
Xmas activities	Xmas Activities								