

	A CHURCH OF ENGLAND ACADEMY					
			Learning overview for Design & Technology			
			Year Group: 10			
Term	Key topics /	What most pupils will learn	Key skills used	How will this learning be assessed?		
	scheme of work	(Prior assessment may alter starting point & content)				
	Picture	Pupils will create a picture frame using	Pupils will understand the technical principles	Ongoing teacher assessment. Short tests.		
Term 1 and 2	frame – traditional	traditional tools as well as the laser cutter.	of timber. This includes the sources, origins, and properties of timber. They will understand how	Assessment of homework.		
	as well as		to work with timber-based materials. Pupils will			
	laser cut.		understand the commercial manufacture, the			
			surface treatments and finishes of timber. Also,			
			pupils will learn about issues regarding the			
	Energy		sustainability of timber.			
	generation, energy storage.	Pupils will learn how science principles combine with technology and understand the impact of this science in technology.				
Term 3	Metals	Pupils will use a range of metal work	Cutting shaping and forming with metal. Pupils	Ongoing teacher assessment. Short tests		
	project	processes to create various products in metal. This could well be the creation of a brass finger ring. The project will also consider making storage for the product.	will understand how metals are extracted from the earth, how they are process and the sustainability issues involved in using metals for products.	Assessment of homework.		





Term 3.	Materials	Pupils will understand paper and board and know how and why these products are used. They will also understand the uses of textile materials and the choices designers have based on the properties of these materials.	Pupils will be able to make informed choices about these materials when industrially manufacturing products. They will understand how these can have social and environmental consequences.	Ongoing teacher assessment. Short tests. Assessment of homework.
Term 4	Game project	Pupils will create a game. This will reinforce the skills and knowledge developed with the picture frame project.	Pupils will have to select the correct tools and materials and combine these to create a product with good aesthetics and function.	Ongoing teacher assessment. Short tests. Assessment of homework.
Term 5	Various short tasks that integrate with theory lessons.	For example, the analysis of different adhesives. Use and analysis of adhesives.	Pupils will combine practical skills with theoretical knowledge so they can make informed choices when working independently on their NEA.	Ongoing teacher assessment. Short tests. Assessment of homework.
	Book end and joints.		Pupils will use quality control and consider tolerances and allowances. They will need to	





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		To prepare pupils for the NEA project, pupils	consider material management and marking	
		will use traditional tools to create wood	out.	
		joints.		
	Mock exam			
Term 5		Duraile will be me avere skille and revision		Teacher assessment.
		Pupils will learn exam skills and revision		
		techniques to undertake a mock exam.		
	NEA (course	Pupils will start creating their NEA (non- exam	Pupils will investigate and uncover a real-life	Ongoing teacher assessment of the NEA.
Term 6	work).	assessment) design folder. The exam board	problem and start to investigate this ready for	(Controlled assessment)
	Revision of	publish the design context on June 1 <sup>st each</sup>	continuation in September of Yr. 11.	
	key words	year.		
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All terms	Theory	A considerable amount of theory work is		An end of year mock exam.
		integrated with the projects.		Ongoing tests and teacher assessment.
				Some questions are set for homework.

