

CURRICULUM PLAN – Year 10 Design and Technology

YEAR	TRINITY 2	MICHAELMAS 1	MICHAELMAS 2	LENT 1	LENT 2	TRINITY 1
10						
10		Organiser	LED Night Light project	LED Night Light project	Pewter Casting	Pewter Casting
Double lessons	M	Health & Safety in the workshop (recap) Manufacture of Desk tidy	To understand the structure of the whole Design	Manufacture of Lamp	Development of CAD & CAM (Techsoft Design & router)	jewellery piece
			Process.	Production Log	Development of Design Ideas	Health & Safety in the workshop (recap)
e les	Organiser		Design Brief / Design Spec / Primary research /	Testing and Evaluation	Anthropometric data &	Production Log
nplo	Introduction to Polymers /manufacturing processes		Technical drawings / Development of Design		ergonomics (recap)	Testing and Evaluation
۵	using polymers. Designing through		Ideas		Manufacturing Specification	
	modelling / Anthropometric data &		Development of CAD (2D Design)			
	ergonomics (recap) Introduction to use of		- ,			
	Onshape and Photoshop/ Development of 2D design	Theory	Theory	Theory	Theory	Theory
	Heat Transfer (sublimation printing) onto Polymers	Polymers – thermoforming & thermosetting	Natural and manufactured timbers – softwood,	Developments in new materials	Metals and alloys – ferrous, non-ferrous, and alloys.	Mechanical devices
	Material properties – what	Dun annan	hardwood, manufactured boards	Use of Product Analysis	New and emerging	Different types of movement
Single lesson	do we mean by this? Why is it so important? Linking to forces & stresses	Issues linked to the environment	Systems approach to designing	Energy generation and storage	technologies	Introduction to the range of different mechanisms & machines
ngle		Sustainability				
S		As designers, how can we design to protect the environment?				
		28 Sept Tracking	13 Dec Tracking	Year 10 Exam	30 Mar Reports	