Year 8



Working towards an empathetic future Exploring displacement of people around the world as a result of natural and manmade disasters. How can D&T remedy some of these issues?				
Keywords	Key skills	Equipment/ processes used/ materials		
CAD (Computer Aided-Design)	Google SketchUp (CAD skills)	Laptops		
CAM (Computer Aided-Manufacture)	3D printing process	Google sketch-up/ Tinkercad		
3D printing	Spatial Awareness	3D printers		
Additive manufacturing	Problem solving	PLA		
Emphatic	Specification	Foam board		
Modelling	User designed	Cutting board		
	Team work	Craft knife		

Hanging around/what's the hold up! Pupils will work through a design problem and use a combination of acrylic, card and pine to create a unique product/ alternatively, some may follow a focused practical task to ultimately provide a design solution. Using a combination of key skills such as 2D design, CAD/CAM, laser cutter, 3D printing, line bending, casting, hand tool skills and refinement.				
Keywords	Key skills	Equipment/ processes used/ materials		
Iterative process.	Comb joint	Pine		
Acrylic	Accuracy in measuring and cutting	Tenon saws		
Laser cutter	Laser cutting- new and emerging	Bench hooks		
CAD	technologies working alongside traditional	Acrylic		
CAM	Sustainability	Hardboard		
Thermo plastic	Tolerances	PVA/wood glue		
Thermosetting	Uses and purposes of timbers	Belt sander		
Line bending	Iterative process.	Sandpaper		
3D printing	3D modelling.			
Casting	Problem solving.			
Reading working drawings				

Chocolate Novelty				
Using 2D design to design a simple chocolate novelty and packaging.				
Keywords	Key skills	Equipment/ processes used/ materials		
Iterative process.	Iterative process.	Laptops		
Acrylic	3D modelling.	2D design// HIPS		
Laser cutter	Problem solving.	MDF (for laser cutter)		
CAD	Branding	Laser cutter// Vacuum former//		
CAM		Belt sander/ sand paper// PVC// Book-		
Thermo plastic		lets // Laptops// 2D design//		
Thermosetting		Paper/laminator		
Vacuum forming				
Branding				
Fairtrade				