Year 9



Pewter casting

Look at existing designers work and culture to inspire a simple design using pewter. (Differentiate by allowing pupils to add acrylic pieces.)

Keywords	Key skills	Equipment/ processes used/ materials
Pewter	CAD/CAM (LASER CUT)	Pewter ingots
Culture	Pewter casting	Pewter casting kit
Inspiration	Design influences	MDF-moulds
Casting	Work of others	Laser cutter
Ferrous		Steel wood
Non-ferrous		Buffer
Alloys		Thread/cord

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ıce	base.	Use	laser	cut			

Using simple vacuum forming process to produc tter to design and make the decorative element. Simple electronic circuit for produce light.

Keywords	Key skills	Equipment/ processes used/ materials
Iterative process.	Iterative process.	Laptops
Laser cutter	Laser cutter	Paper
CAD	2D design	Acrylic
CAM	Problem solving.	Scanner
Thermo plastic	Forming process	Night light kits
Thermosetting		Vacuum former
		HIPS
		Strip heater
		Soldering iron
		Solder

FPT Automaton toy

Using timber/ textiles materials to create a product to include forces, stresses and mechanisms. Pair work?

Keywords	Key skills	Equipment/ processes used/ materials
Lever	Lap joint	Pine
Cam	Accuracy in measuring and cutting	Tenon saws
(Names of different cams	QA/QC	Bench hooks
-SNAIL, PEAR, EGG, ECCENTRIC)	Marking	Laser plywood
Motions/ forces	Hand tools	Hardboard
(Oscillate, reciprocate, linear, rotary)	Tolerances	PVA/wood glue
		Belt sander
		Power /PILLAR drill
		Timber (some pre cut)
		CAMS
		Dowel