

High Tunstall College of Science Curriculum Intent

Subject: D&T Year: 9 Materials rotation



Topic: Materials

Design & Technology		Progress		
Topic	Key ideas	R	A	G
Construction and joining techniques.	I can use tools and equipment safely.			
	I can create a piece of jewellery fit for purpose.			
	I can use finishing techniques to present my practical work.			
	I can use measuring and marking out equipment accurately.			
	I can evaluate my work and produce a diary of production to show how I could improve.			
	I can design and create in a variety of materials including wood, metal and plastic.			
	I can analyse existing products and describe the materials, techniques and processes used to create a product.			

Lesson	Learning Focus	Assessment	Key Words
1	Health and Safety induction and knowledge of tools and equipment.	End of rotation assessment Final outcome.	Construction, Half lap joint, Mitre joint
2	Using tools and equipment safely and accurately to measure, mark and cut metal.	ILO— Materials	Steel rule, Tri square, Pencil (sharp)
3	Using tools safely to manipulate and mark make on metal. Understanding the working properties.	End of rotation assessment	Tenon saw, Bench hook, Vice, G Cramp
4	Use finishing techniques to complete a high quality outcome.	End of rotation assessment	Acrylic, HDPE, PVA glue
5 & 6	I can adapt my practical skills to a different material. E.g. wood. I can measure, mark and cut a wood joint easily.	ILO— Materials End of rotation assessment	Tolerance, Manufacturing, Millimetres, Measuring
7	I can create a diary of production evaluating my final product.	Assessment	Mallet, Chisel Hammer, Glass
8	I can identify the properties of wood, metal and plastic.	Assessment	Mallet, Chisel Hammer, Glass paper
9	I can analyse an existing product describing all of the properties.	Assessment	Ductile, conductive, insulator, elasticity,
10	I can design a product fit for purpose and describe all of the properties.	Assessment	Analyse, evaluate.
11	Assessment.	End of rotation assessment	
6	Deep marking and feedback.	ILO— Materials End of rotation assessment	