

KS3 Resistant Materials & KS4 Three-Dimensional Design

Curriculum Intent: Pupils will leave Bloxwich Academy having developed a fundamental life skill as they will Know basic safety rules and procedures in the workshop. They will be designing and making more sophisticated products and structures. They will also undertake more complex design projects with a focus on problem-solving and creativity.

Curriculum Rationale: We ensure our Resistant Materials & 3-Dimensional Design courses enables pupils to learn how to use measuring tools used in industry correctly and complete a practical outcome independently.

Our pupils will have a good understanding of personal safety and explore the role of design in everyday objects and products by developing their skills when using hand and power tools safely.

Our KS4 pupils will learn a range of complex skills to prepare them for a future career in 3-Dimensional Design as well as developing a good knowledge of the industry to preparing them for the workplace so that they can be successful in their future career.

What makes the Bloxwich experience unique: Unlike many schools we **do not** expect pupils and parents to provide the tools or materials pupils need for their lessons. We believe that all pupils should learn the vital life skill of 3- Dimensional Design and so no pupil will be disadvantaged because of the cost of materials. Therefore, we use our funding to buy all materials throughout KS3 & KS4 so that everyone has full access to our curriculum.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
7	Year 7 Technology Rotation						
	Trinket Box – Health and Safety						
8	Year 8 Technology Rotation						
	Key ring holder – Precision of measurement						
9	Year 9 Technology Rotation						
	Desk tidy – Creating innovative design ideas/ following production plans to produce prototypes						
	Autumn 1	Autumn 2	Spring 1 ½	Spring 1 ½	Spring 2	Summer 1	Summer 2
10	Three-Dimensional Design Project 1- Textured Tiles Component 1 Portfolio 1 AO1/2:	Three-Dimensional Design Project 1- Textured Tiles Component 1 Portfolio1 AO2:	Three-Dimensional Design Project 1- Textured Tiles Component 1 Portfolio 1 AO2:	Three-Dimensional Design Project 1- Textured Tiles Component 1 Portfolio 1 AO2/O3:	Three-Dimensional Design Project 1- Textured Tiles Component 1 Portfolio 1 AO3:	Three-Dimensional Design Project 1- Textured Tiles Component 1 Portfolio 1 AO4:	Three-Dimensional Design Project 2– Architectural light Component 1 Portfolio 2 AO1/2
11	Three-Dimensional Design Project 2– Architectural light Component 1 Portfolio 2 AO2/3:	Three-Dimensional Design Project 2– Architectural light Component 1 Portfolio 2 AO4:	Three-Dimensional Design Component 2 ESA AO1/2:		Three-Dimensional Design Component 2 ESA AO2/3:	Three-Dimensional Design Component 2 ESA AO3/4:	