Year 10 Curriculum Overview

Design & Technology

Term	Theory	Practical
Autumn 1	Specialist Technical Principles	Model Me
	Forces and Stresses	You will research an existing product and make a model
	Carbon Footprint and Greenhouse Gases	of an exact replica using a range of modelling materials
	The 6 R's	Research – Existing Products
	Scale of Production	Product Analysis
	Improving Functionality	Importance of Prototyping
		Making Schedules
		Making Principles
Autumn 2	Timbers	Bird BnB
	Forestry Management	You will Design and Make a Bird Box Hotel based
	Conservation and Seasoning	around a classic bird box shape which you will adapt
	Common Faults	Research – Existing Products
	Deforestation	The use of Al
	Manufactured Boards	Initial Sketches
	Making Principles with Timber	3D Design
	Quality Control	
	Surface Treatments and Finishes	
Spring 1	Designing Principles	Bird BnB - Continued
	Types of Research	Following a Plan
	Ergonomics	Wood Joints
	Anthropometrics	Making Principles
	Design Brief and Specification	Evaluation
	Modelling	
	Types of Design	
	The Work of Others	
Spring 2	Making Principles	Specialist Making Techniques
	Material Selection	You will learn a number of specialist practical skills
	Project Management	which we may not have covered within our past
	Reducing Waste	projects
	Datum Points – CAM	Addition Techniques
	Health and Safety	Subtraction Techniques
	Risk Assessment Writing	Deforming Techniques
	Material Application Methods	
Summer 1	NEA – Coursework	
	Students will be given a specific Context from	
	the exam board (AQA) and will independently	
	produce a portfolio around a product of their	
	choice	
	Section A - Research	
Summer 2	NEA – Coursework – Continued	
	Section A – Research – Continued	
	Section B – Design Brief and Specification	