

Curriculum Overview

Subject: Design and Technology

	Autumn 1	Autumn2	Spring 1	Spring 2	Summer 1	Summer 2
YEAR 9 Theory	Unit 1 New and Emerging Technologies; <ul style="list-style-type: none"> • Industry and Enterprise • Sustainability • People, Culture and Society • Production Techniques • Informing Design Decisions 	Unit 2 Energy, Materials and Systems; <ul style="list-style-type: none"> • Energy Generation • Energy Storage • Modern Materials • Smart Materials • Composite and Technical Textiles • Systems and Mechanical Devices 	Unit 3 Materials; <ul style="list-style-type: none"> • Paper and Board • Timbers • Metals and Alloys • Polymers • Textiles 	Unit 4 Specialist Technical Principles; <ul style="list-style-type: none"> • Forces and Stresses • Ecological and Social Footprint • The 6R's • Scale of Production • Improving Functionality 	Unit 5 Timber Based Materials; <ul style="list-style-type: none"> • Sources, Origins and Properties • Working with Timbers • Commercial Manufacturing 	
YEAR 9 Practical	Art Movement Clock	Mathematical Photo Frame	Educational Board Game		User Centred Lighting Project	