



Our Vision:

To develop aspirational learners who strive for excellence academically, creatively and culturally, benefitting from a wide range of opportunities led by inspirational educators.

Design & Technology Curriculum Overview Mapping

Year Group	Curriculum Intention	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	To learn basic skills using hand tools safely. To work with metal, manmade board and plastic. To recognise types of metals and metal processes and experience mould design, mould making, casting, cutting shaping and finishing in pewter. To recognise types of plastic and plastic processes and experience mould making and Vacuum forming HIPS plastic. To learn about basic electronic systems and to experience soldering, construction and testing of a simple circuit.	Health & Safety in the Workshop Pewter Keyring project	Pewter Keyring project - continued STEM Card circuit project	Health & Safety in the Workshop Pewter Keyring project	Pewter Keyring project - continued STEM Card circuit project	Health & Safety in the Workshop Pewter Keyring project	Pewter Keyring project - continued STEM Card circuit project
Year 8	To develop basic skills and understanding in the use and application of CAD and 3D Manual Drawing techniques including colour rendering and the manufacture of nets to model 3D shapes in card. To learn about Wood and Manmade boards including sources and processes and social/environmental issues. To learn about Forces and Structures including research into natural structures (biomimicry) To learn to design a bridge structure then model, manufacture and use	Core Skills, 2D Design and Structures	Structures and Picture Frame	Core Skills, 2D Design and Structures	Structures and Picture Frame	Core Skills, 2D Design and Structures	Structures and Picture Frame

	destructive testing to evaluate the design. To learn to develop basic design and manufacture skills in wood and manufactured boards including 2D drawing of design ideas and development of 2D and 3D final designs; understanding methods for joining wood; developing skills in the safe use of hand tools and workshop equipment for cutting, joining and finishing; evaluating finished products for quality and accuracy relative to designs.						
Year 9	<p>To use a Balloon project to develop accurate design drawing skills, group work skills and accurate marking out skill working to scale.</p> <p>To use the Jewellery short project to develop and understanding of the design process and fine practical skills in cutting, joining forming and finishing metals, plastics & Timber.</p> <p>To use a textiles project to look at natural and synthetic textiles, their production and joining methods</p>	Hot Air Balloon Project	Jewellery Project	Hot Air Balloon Project	Jewellery Project	Hot Air Balloon Project	Jewellery Project
Year 10	The aim of the Year 10 curriculum is to prepare students for the GCSE exam and NEA by working through a mini GCSE project that will allow them to build skills in both design and manufacture. Relevant subject knowledge will be delivered and assessed throughout this process at appropriate points as the project develops.	GCSE Content Project Design	Design Development	Project Manufacture	Project Testing & Evaluation	Systems and Mechanisms	GCSE Project Start Investigating the Context

Year 11	Year 11 students will work throughout the autumn and spring terms completing the NEA assessment. During this time they will study subject areas related to the stage in the project. In the summer term students will revise subject knowledge for GCSE exams and undertake practice questions and past papers.	GCSE Content review Design Development	Planning and Manufacture	Assembly and Finishing	Project Testing & Evaluation	GCSE Exam Preparation	GCSE Exam Preparation
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