

Year 9 Curriculum Overview

Design & Technology

Term	Theory	Practical
Autumn 1	New and Emerging Technologies Digital Revolution Automation Finite / Non-Finite Materials Being a responsible designer Life Cycle Assessment	Clocks Design and Make a new clock which would be suitable for sale in the London Design Museum ACCESS FM – Design Specifications Understanding Art Movements Research Initial Sketches CAD – Computer Aided Design
Autumn 2	New and Emerging Technologies - Continued Technology Push / Market Pull Fashion and Trends Culture in Design CAD / CAM Just in Time ordering systems	Clocks – Continued CAM – Computer Aided Manufacturing Finishing Techniques Christmas Decorations Design and Make your own family Christmas decoration
Spring 1	Energy, Materials and Systems Where does energy come from? Fracking Renewable Energy Systems Forms of Energy Cells and Batteries	Make Anything Design and Make anything you want from a small supply of recycled / scrap material Research Design Principles Making Principles
Spring 2	Energy, Materials and Systems Smart Materials Modern Materials Inputs and Outputs Types of Motion Levers Linkages CAMS and Followers Gear Trains Block and Tackle Systems	Movement Board Design and Make a movement board which demonstrates your understanding in a range of different movement types Types of Motion Levers Linkages CAMS and Followers Gear Trains Block and Tackle Systems
Summer 1	Materials Paper and Board Timber Polymers Metals and Alloys Textiles	Board Games Design and Make a brand new board game of your choice with a theme of your choice Research – Existing Products ACCESS FM – Analysing Products Initial Design Ideas Designing Principles
Summer 2	End of year Assessment Revision Sessions Creating Revision Material End of Year Test	Board Games - Continued Making Principle Evaluation – Self and Client Isosketch This is an introduction to 3D sketching and designing using a specific drawing tool called 'Isosketch' Crating Basic Shapes Joining Shapes Shapes to Products 3D Shape Board