



Harrow Way
Community School
Learning for life, success for all



Curriculum Overview

DESIGN TECHNOLOGY

Design and Technology Curriculum Overview

KS3 years 7, 8 and 9 Design and technology is delivered via a carousel of 4 units of work per year

KS3				
Year 7	Systems and Control: Steady hand game, Introduction to electronics, energy sources and working with polymers	Textiles: Door stop, introduction to fibres and the sewing machine, running stitch	Food: Watermelon basket, introduction to knife skills. Sandwich and the 5 nutrients. Muffins, the all in one method.	Product design: Picture frame, introduction to working with timber and resistant materials.
Year 8	Systems and Control: LED light, Introduction to Microcontrollers and CAD CAM laser cutting	Textiles: Apron, Working with patterns, box stitch.	Food: Apple crumble , Dietary needs. Gluten free Lasagna, Vegetarianism Sausage rolls, making pastry rubbing in method, Victoria sponge	Product design: Board game, introduction to graphic products and packaging.
Year 9	Design communications skills, various drawing techniques, rendering. 3D modelling.	Mechanisms: Automata, mechanical advantage, levers, linkages and gearing Childs wooden Toy RMT workshop Skills	Systems and industry:. Automation, scales of production, Sustainability, circle economy	End of KS3 Design challenge A chance to show off the design skills and knowledge learnt throughout KS3
How can parents help?	We are very grateful for the annual contributions made towards the project costs. Students are able to take projects home when completed. Opportunities: Visits to museums, specialist books, support with home learning. Providing ingredients for Food practical lessons.			

Design and Technology Curriculum Overview

KS4	Autumn Term	Spring Term	Summer Term
Year 10	<p>Introduction to AQA GCSE in Design and Technology specification. Revisiting the 5 core technical principles through a series of theoretical and practical focussed tasks. Organising our prior knowledge.</p>	<p>Specialist technical principles through a series of theoretical and practical focussed tasks. Organising our prior knowledge.</p>	<p>Practice NEA Guidance in how to approach the NEA 40 hour independent design and make challenge. Launch of the NEA June 1st Completion of AO1.</p>
Year 11	NEA A02 Designing and Making	NEA A02 Designing and Making AO3 Evaluating	AO4 Revision towards written exam 2 hours in the hall
How can parents help?	Access to IT in order to support revision, encouragement to attend intervention after school where necessary. Revision guides.		