Year 7 Design and Technology 'Inspire' Curriculum Map – 2022-23

In the Design and Technology department, we aim to keep our curriculum fluid and open to change. This enables an open dialogue and continual reflection on content to ensure we deliver a valuable programme of study.

Year 7	Introduction to the World of	Designing for others – Celebration	Problem solving – Letter Puzzle	Electronic control – LED Night Light
	Technology	Mug		
Knowledge	The world of Design and	Design and Make challenge	Design and Make Challenge	Design and Make Challenge
	Technology.	Drawing techniques – solid shapes.	How to write a design brief.	Systems approach to solving
	Why product design changes –	Design a celebration mug and suitable	The Iterative Design Process.	problems.
	consumer/cultural needs.	packaging for a target user.	How to write a specification.	Core knowledge of components:
	Iterative Design as a process.	Material properties of papers and	Who is a client and user – what are	Resistors
	Core knowledge of materials:	boards.	their needs?	PCBs
	• Wood	Sublimation printing.	Design a product using designer	LEDs
	Metal	How marketing influences consumers.	influence as inspiration.	Micro switches
	Polymers		Material properties of wood and	Power sources
	Textiles		polymers.	Electronic soldering.
	Papers and boards		Industrial processes – Vacuum	Industrial processes - Line
	Key Designers as an influence		forming.	bending/strip heating.
	over design.		Health and Safety in the workshop	Creative designs to enhance the
	How to create design pages.		Joining materials.	aesthetic appearance of a product.
			Key Designer – Memphis Design.	
Skills	Evaluative comments regarding	Drawing techniques.	 Using 2D design. 	Electronic soldering.
	product design.	Cutting and shaping card.	Card modelling.	Fault finding.
	 Able to assign materials to 	Using craft knives.	Cutting and shaping a piece of	Cutting and shaping acrylic.
	products.		wood.	Line bending.
	 Drawing skills – 3D objects. 		• Use of the sander.	• Using 2D design.
			Vacuum forming.	

The actual sequence of delivery will vary due to resourcing and or timetabling. By the year end all planned activities will have been covered.

Outside of lessons we also encourage pupils to attend our 'making club' which provides further opportunities to develop their making skills and knowledge of materials, processes, tools and equipment.