Y7 DESIGN AND TECHNOLOGY



DESIGN AND TECHNOLOGY AT YARDLEYS

INTENT: The Design and Technology Curriculum aims to nurture the designers, engineers, and architects of a more sustainable world where they can be reflective and creative individuals able to solve real-world problems using practical solutions. Students are encouraged to consider the needs of others when designing and making products, taking into account the values, culture and the well-being of the nation. We also encourage them to take risks and question the world around them by understanding that design is all around us and that design is for all. The Design and Technology curriculum will give all students the cultural capital they need to succeed in life as well as the ability to challenge and change the ever-changing world of Design and Technology.

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Throughout the year pupils at Yardleys will experience a DT curriculum that will introduce them to the core aspects of product design and making. They will develop their understanding of nutrition and basic food preparation skills and develop the technical awareness and understanding of electronics within a systems and Control unit of work.

YEAR 7						
Theme	"Designing for People"	"Design Development"	"Production and Industry"	"Making 1 and Making 2"	"Food, Cooking and Nutrition"	"Systems and Control"
SUBSTANTIVE	User Needs	Presenting Ideas	Industrial Practices	Materials:	Healthy eating and	Components
KNOWLEDGE	Research	CAD	CAM/CNC	Classifying Materials	nutrition	Input-Process-Output
	Creativity/Inspiration	Sustainability 1	Health and Safety	Selecting Materials	Properties of	Sensors
			Planning	Testing Materials	ingredients	Manufacture
				Stock items/bought	Choosing ingredients	
				components	Processing	
				CAM	ingredients	
DISCIPLINARY	User Profile	Be, Do and Have	Scales of	Tools and Processes	Additives	Names and uses of
KNOWLEDGE	ACCESS FM	Sketching/Crating	Production	Measuring and Marking	Planning a meal	components
	Product Analysis	2D CAD	One-	Forming/De-forming	Cooking Methods	Soldering
	Evaluation of	Sustainability - 6R's	off/Batch/Mass	Joining – temporary and	Cooking Equipment	Health and Safety
	Research	Evaluation of	Quality Control	permanent	Evaluation	Testing
	Design Specification	Design	Accuracy	Finishing		Evaluation
				Evaluation of Final Product		

We aim to provide students with a curriculum that educates the whole child, creating responsible and respectful citizens. Through the development of substantive and disciplinary knowledge students are given the tools that allow them to achieve excellence and be ready for life.