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.
Y7 DESIGN AND TECHNOLOGY
Pupils are introduced to the design process and will develop core designing and making skills as well as an introduction to working in CAD, wood, and plastics in a sustainable way.

YEAR 7

Theme	Introduction to Design and Technology: STORAGE for small items using man-made timber (MDF/Plywood)	Design Development in Design and Technology: USB MEMORY STICK - focus on CAD/CAM	Knowledge and Understanding in Design and Technology: KEY RING Industrial Processes - Jigs and Formers PROJECT
SUBSTANTIVE KNOWLEDGE	Needs of the User Research skills Presenting design ideas Computer Aided Design	Developing ideas Sketching using isometric and crating The 6 R's of Sustainability Industrial practices	Working with materials Introduction to tools and processes Working safely Planning
DISCIPLINARY KNOWLEDGE	Writing a User Profile Using ACCESS FM Writing a design specification Sources and properties of man-made timber Joining and finishing man-made timber	2D CAD skills 2D and 3D sketching skills Evaluating our designs Sources and properties of plastics Joining and finishing plastics	Properties of materials Choosing materials Measuring and marking Forming/de-forming Joining materials Finishing Evaluating and testing products

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.