Design and Technology at Key Stage 3 at Cottenham Village College aims to resource our learners with the skills and resources to make a positive impact on society. We want to provide them with the experience of the changing face of design and engineering and the impact our design decisions make on people, the environment and society. The curriculum is designed to build a foundation of material knowledge underpinned with a focus on sustainability that allows students to explore a user-centred design approach leading to creative thinkers with empathy and consideration of others.

At Cottenham VC we routinely use a range of strategies to formatively assess and give feedback to students about their progress. In Design and Technology these strategies include rotational knowledge quizzes to assess understanding of technical concepts and key vocabulary. Whole class feedback used to aid the development of new practical skills.

	Rotation 1	Rotation 2	Rotation 3	Rotation 4
Key subject knowledge:	Design Communication, drawing	Design Process, working with a	Food and Nutrition, working	Making Skills, working with
Building a strong	and sketching in 3D, rendering	client, using research and	safely in the kitchen, cutting and	timber-based materials
foundation in Design	texture to communicate design	investigation to develop an	preparation skills	
and Technology	intentions	appropriate outcome for a		
		problem		
Key disciplinary	Using perspective drawing	Using product analysis as a form	The importance of food hygiene	The importance of working safely
knowledge:	techniques to demonstrate	of investigation, identifying	and the 4 C's (Cleaning, Cooking,	in the workshop and introduction
Key skills and technical	design ideas in 3D.	problems to solve.	Chilling, and Cross	to the safe use of tools and
knowledge	The use of isometric projection to	Investigation of graphic design	Contamination)	equipment used in the
	accurately reflect proportions	principles to communicate	Nutrition and the importance of a	production of timber product.
	and dimensions when	information to a user.	healthy balanced diet.	Use of marking equipment to
	communicating design ideas.	Investigation of the properties of	Safe cutting and ingredient	accurately prepare for
	Be able to confidently render a	papers and boards as a material	processing skills.	production.
	range of materials to bring	and their use in product design.	Development of baking skills and	The working properties of
	realism and accuracy to design		independently working from	different timbers.
	drawings.		recipes.	
Summative Assessment	Baseline technical knowledge	Completed project demonstrating	Cold knowledge quiz	Technical knowledge test
Strategies	quiz.	the following skills.	Demonstrating appropriate	Demonstration of independent
	Completed design drawing,	Writing a specification	practical skills	working skills.
	demonstrating design	demonstrating awareness of user	Assessment of independent	Assessment of practical
	communication skills	needs.	working practice	production skills and tool uses.
	(perspective, tone, rendering,	Product designed that meets the		
	annotation)	specification.		

How does this unit	The skills covered in this unit are	Considering the way that users	Students will begin to develop	Students will gain an
prepare students for	used across the curriculum. This	interact with our products is an	the language to discuss nutrition	understanding of safe working
future study?	unit works as a foundation to the	important part of the process.	and identify key aspects of a	practices when in the workshop.
(Why does this unit go	skills used to clearly	This unit will introduce students	balanced diet. They will build key	They will be introduced to the
here and not elsewhere	communicate basic design ideas.	to several critical design planning	skills such as kitchen hygiene	importance of material
in your curriculum)		and research skills that we will	chopping, weighing and working	management and the properties
		build upon as the course	from a recipe.	of timbers as a material.
		continues.		