Our Lady Queen of Peace

Catholic Engineering College

Curriculum Overview

Year 8 Technology

	Knowledge & Understanding				Subject Specific Literacy Development		Cultural Capital / Enrichment
	Topics (Bigger Picture)	Knowledge (Key Concepts)	Links to NC	Recall & Retrieval Practice Focus	Reading for Meaning	Key Vocabulary	Opportunities
Rotation 1 Product Design and Manufacture	Developing product design and manufacture skills and knowledge How you work through the design process to design and manufacture a product?	To know how to use ACCESFM to analyse an existing product. To know how to create a workshop production plan and identify where quality control must take place during their practical. To Know the working properties of softwoods and be able to work independently when using tools and equipment.	Investigating new and emerging technologies Develop specifications to inform the design of innovative, functional appealing products that respond to the needs of a variety of situations	Every Lesson: Recall activity linked to prior learning and key terminology. Think pair and share activities. Using mini white boards to check for understanding. Mid-Point: Low stakes Quiz based on cumulative knowledge and Key Piece based on key part of design process End Point: End of topic assessment 35 marks	The impact that technology has had on society.	Impact Quality Control Soft Wood	Understanding the positive and negative impact that technology is having on society and on mental health. Recognising that technology is ever evolving and that the impacts are felt globally. Understanding how we communicate ideas is ever evolving. Makers Club STEM Club

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Rotation 2 Textiles and Fashion	Developing Textiles and Fashion Skills and Knowledge How to respond to a textiles brief	To know how to make a 3D model of a chosen design idea and understand why designers make prototypes. To know how to Batik and tie die fabrics safely. To know how to use ACCESSFM to evaluate their finished garments.	Select from and use a wider, more complex range of materials, components and ingredients, taking into account their properties	Every Lesson: Recall activity linked to prior learning and key terminology. Think pair and share activities. Using mini white boards to check for understanding. Mid-Point: Low stakes Quiz based on cumulative knowledge and Key Piece based on key part of design process End Point: End of topic assessment 35 marks	Where does cotton come from?	Batik Tie Die Modelling Prototype	Understand the impact of fashion on the environment and how sustainable design practices can make a difference. Learn how to choose fabrics, colours, and patterns that reflect personal style. Explore how textiles tell stories and carry cultural significance. Textiles Club
Rotation 3 Cooking and Nutrition	Developing baking skills How to select ingredients to make appealing and nutritious sweet and savoury baked dishes	How to create dough How to create batter How to perform the rubbing in method How to time dishes when baking Weighing and measuring ingredients	Cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet	Every Lesson: Recall activity linked to prior learning and key terminology. Think pair and share activities. Using mini white boards to check for understanding. Mid-Point: Low stakes Quiz based on cumulative knowledge and Key Piece based nutritious meal planning. End Point: End of topic assessment 35 marks	The history of British baking.	Savoury Dough Weighing Organoleptic	Understand the skills employers value, such as teamwork, hygiene, and time management Explore how food choices impact energy, growth, and wellbeing. Catering Club

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	(Bigger Picture)	(Key Concepts)		Focus	Meaning		
	<u>Using computer</u>	To develop design and	Develop and	Every Lesson:	How CAD/CAM has	CAD	Discover how
	aided design	modelling skills	communicate	Recall activity linked to prior	changed the design	CAM	design affects the
	software How designers	through using 2D and 3D CAD software	design ideas using annotated	learning and key terminology.	industry.	Rapid Prototyping	way we live, from phones to furniture
	adapt design solutions using		sketches, detailed plans, 3-	Think pair and share activities.			Understand how
	computer design		D	Using mini white boards to check for			designers think and
	software?		and	understanding.			innovate in
			mathematical	,			response to real
			modelling, oral	Mid-Point:			needs.
Rotation 4			and digital	Low stakes Quiz based on			
STEM			presentations	cumulative knowledge and Key			Discover career
			and computer-	Piece based on key part of design			paths in
			based tools	process			architecture,
							engineering,
				End Point:			carpentry, product
				End of topic assessment 35 marks			design, and
							manufacturing. Makers Club
							Makers Club
							STEM Club

Key Assessments						
When	What will be assessed?	Why is this being assessed?				
During Product Design and Manufacture rotation.	Key Piece on production planning and quality control. Mid topic low stakes quiz on key terminology.	 To check that students understand the planning process and they can work to a given plan. To check that students have embedded language and concepts from year 7 and understand the language that is associated with product design and manufacture in year 8. To check that students have retained knowledge and can apply design choices to an alternative brief. 				
During Textiles and Fashion rotation	 End of topic assessment. Key Piece on product analysis. Mid topic low stakes quiz on key terminology. End of topic assessment. 	 To check students understand that using ACCESSFM to analyse existing products can aid them with their designs To check that students have embedded language and concepts from year 7 and understand the language that is associated with Textiles and Fashion in year 8. To check that students have retained knowledge and can apply design choices to an alternative brief. 				
During Cooking and Nutrition rotation	 Key Piece on global pastry production. Mid topic low stakes quiz on key terminology. End of topic assessment. 	 To check students, understand how pastries are produced in different countries depending on the availability of ingredients. To check that students have embedded language and concepts from year 7 and understand the language that is associated with Cooking and Nutrition in year 8. To check that students have retained knowledge and can apply nutritional choices to alternative menus. 				
During STEM rotation	 Key Piece on using computer commands on 2D design software. Mid topic low stakes quiz on key terminology. End of topic assessment. 	 To check students, understand how to use 2D design to create a design. To check that students understand the language that is associated with CAD. To check that students have retained knowledge and can apply their knowledge to alternative design contexts. 				
Half Term 6	Cumulative assessment on 4 different technology rotations	To check that students have retained knowledge from the four different areas of technology.				