

CURRICULUM PROGRESSION PATHWAY – Design and Technology : Product Design

1 hour per week y7-9 / 2 hours per week y10-11 (GCSE Design and Technology)

	Year 7	Year 8	Year 9	Year 10	Year 11
Autumn 1	Health and safety induction. Picture Frame Project: Mixed material project	Health and safety induction / recap. LED circuits / soldering.	Health and safety induction / risk assessments. Board Game design and make project	Understanding the design process. Design Ideas and development. Design Movements. Materials and properties. Specialist technical skills.	Exam board - NEA Task A full range design and make activity covering all aspects of the design process and leading students towards a final prototype and portfolio. Alongside – review of core content in preparation for examination.
Autumn 2	introducing a number of manufacturing techniques.	Mood light design and make project. Mixed materials and manufacturing techniques creating a housing unit and lighting effect.	exploring graphic design skills.	Mini NEA task - Design and make activity exploring the main elements of the NEA and how the portfolio is prepared.	
Spring 1	CAD / CAM – 2d design and make project.		Electronic Dice Project. Understanding function of components to make the circuit. Making and housing the dice circuit for the board game.		
Spring 2	Textile jewellery design and make project. Understanding the structure of fabrics.	Structures Project / Disaster shelters – group work problem solving project to design and model a structure that solves a real world problem.			
Summer 1	How to manipulate and create with fabrics.		Programming – Electronic Dice	Embedding core content. Focussed practical tasks.	

Summer 2	Drawing skills. Developing 3d hand drawing techniques.	Mechanisms and types of motion investigations.	CAD / CAM – how to design and make in 3d using computers.	NEA Task - open end of term.	
-----------------	---	--	---	------------------------------	--

CURRICULUM PROGRESSION PATHWAY – Design and Technology : Food Technology

1 hour per fortnight 7-9 / 2 hours per week y10-11 (GCSE Food Preparation and Nutrition)

	Year 7	Year 8	Year 9	Year 10	Year 11
Autumn 1	Health and Safety / food hygiene. Mixing methods - buns	Health and safety. Mixing methods –muffins	Health and safety. Mixing methods – Swiss roll	Food nutrition and health Food safety	Exam board - NEA Task 1: Investigation activity.
Autumn 2	Understanding a healthy diet.	Food poisoning - Handling high risk foods.	Macro Nutrients – Chicken Fajitas.	Food choice Food provenance	
Spring 1	Food commodities.	Understanding food labels. Pastries	Food Science – pastry. Quiche	Mini NEA 2 task - Design and make activity exploring the main elements of the NEA and how the portfolio is prepared.	Exam Board – NEA Task 2: A full range design and make activity – 3 course meal
Spring 2	Function of ingredients.	Pastas and sauces.	Nutritional needs of different food groups. Cottage Pie / Lasagne		

Summer 1	Function of ingredients	Food provenance breads	How cooking affects sensory analysis. Focaccia	Food science	Examinations
Summer 2	Sensory analysis	Food and its role in religions	Functional and chemical properties of food. Heat transfer	NEA 1 Task - open end of term.	

CURRICULUM PROGRESSION PATHWAY – Design and Technology : Textiles Technology

1 hr per fortnight 8-9 / 2 hours per week y10-11 (GCSE ART Design – Textiles Focus)

	Year 7	Year 8	Year 9	Year 10	Year 11
Autumn 1	Taught within DT : product design Note: it may be that in year 8 and 9 food is taught for 20 hours and then textiles for the next 20 hours to complete the year or vice versa.	Design and Make Pod Pillows: Health and safety/Risk assessment. Tie dye / Decorative stitches / Fibres to fabric / Applique design / Sewing machines. Analysis / Specification / Design / Development /	Health and safety Health and safety/equipment/careers Batik and sample Finish Batik sample and evaluation Fabric pens/samples 6 R's Initial design ideas Final design idea and template.		Exam board - Controlled assessment – 10 hour practical exam. Examinations
Autumn 2					
Spring 1					
Spring 2					
Summer 1					
Summer 2					
				Coursework - Project one – Nature forms. Lino printing / Free machine embroidery /Stitch and slash/ tucks	
				Coursework - Project 2 – Structure.	

		Evaluation	Smart fabrics Recap on sewing machine/test Stitch together pillow Evaluation Assessment	Felting / needle felting / tie dye / batik / applique / reverse applique.	
--	--	------------	---	---	--

CURRICULUM PROGRESSION PATHWAY

2 hours per week y10-11 additional KS4 subjects

	GCSE Engineering		Engineering - Level2 Cert		Level1/2 Graphics		Level1/2 Hosp & Catering	
	Year 10	Year 11	Year 10	Year 11	Year 10	Year 11	Year 10	Year 11
Aut 1	Intro core content – Electronics Practical. CAD / CAM	Exam board - NEA Task covering all aspects of the design process with a final prototype &	Unit 1 - H&S in engineering environment. U3 - Practical applications –material properties.	Core content review – Units 1-3	Work of graphic designers. Employment opportunities in graphic design.	Unit 3 – Responding to a graphic design brief. Unit 1 and 2 intervention.	A04 – food safety	Exam board – unit 2 – hospitality and catering in action – create a 2 course meal.

Aut 2		portfolio. Alongside –preparation for examination.		Synoptic Assessment:	Types of design briefs, design constraints.		A04 – food safety	
Sp 1	Mini NEA task- Exploring the main elements of how the portfolio is prepared.		U1 - engineering businesses. U3 – Practical applications –material choice	Portfolio of evidence and practical application of all units of work covered.	Planning, development and experimentation. Techniques, components, properties.	Unit 4 – Graphic design portfolio. Exam prep (1 st window). Interventions	A01 – hospitality and catering provision	
Sp 2								A02 – how H&C providers operate.
Sum 1	Review core content - FPT	Examinations	U2 – Engineering drawings & forms of communication	Examinations	Graphic design production. Digital technical skills. Effective use of resources, summative evaluation.	Examinations	A03 – health and safety in hospitality and catering	Examinations
Sum 2	NEA available	Examinations	U4 – CAD / CAM - 3d printing	Examinations		Examinations	Unit 1 assessment	Examination