

## **Technology Department**

Miss E Entwistle (EEN) Curriculum Leader of Technology

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### **Departmental curriculum intent:**

The technology curriculum provides pupils to powerful knowledge and skills through:

- A knowledge rich, sequenced schemes of learning from Year 7 to 11 developed using evidenced informed teaching and learning research.
- Providing opportunities for students to develop transferrable knowledge and skills supporting the progress of the 'whole pupil'.
- Provide opportunities to develop vocabulary, reading and oracy throughout all subject domains that underpin the success of students.
- An inclusive curriculum for students, providing scaffolds to support and build independence, resilience, and student mindset.

### **Engineering**

- understand and apply the fundamental principles and concepts of Engineering Design, including the design process, types of drawings, influences on design, and the use of Computer Aided Design (CAD)
- develop learning and practical skills that can be applied to real-life contexts and work situations
- think creatively, innovatively, analytically, logically and critically
- develop independence and confidence in using skills that would be relevant to the engineering design and development sector and more widely
- analyse problems in design terms through practical experience of solving such problems, including designing, and modelling designs to meet a design brief
- understand the different stages of the iterative design process, recognising the cyclical nature of this approach
- evaluate designs through product disassembly and the process of using product analysis.

### **Textiles**

- Produce creative work, exploring their ideas and recording their experiences
- Become proficient in drawing, painting, sculpture and other art, craft and design techniques
- Evaluate and analyse creative works using the language of art, craft and design
- Know about great artists, craft makers and designers, and understand the historical and cultural development of their art forms.

### **Hospitality and Catering**

- Students develop a range of ambitious practical skills supporting their success in life beyond school.

- Embed student understanding of safe food practices in preparation for life after Alder through knowledge and skills
- Providing opportunities to experience hospitality and catering in industry
- Provide career links throughout Key Stage 3 and 4 curriculum
- At Key Stage 4, pathway options enable students from all abilities to gain the knowledge and skills support life beyond Alder

### KS3

		Autumn Term	Spring Term	Summer Term
Year 7	Resistant Materials	<ul style="list-style-type: none"> <li>• Design Ventura Challenge</li> <li>• Designer research Yinka Ilori</li> <li>• Product design</li> </ul>		
	Fashion	Under the Microscope		
		<ul style="list-style-type: none"> <li>• Introduction to fibres and fabrics</li> <li>• Initial theme research</li> <li>• Artist research</li> <li>• Introduction to stitch</li> <li>• Sample evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• Artist response</li> <li>• Sampling</li> <li>• Initial design ideas</li> </ul>	<ul style="list-style-type: none"> <li>• Final design idea</li> <li>• Personal response</li> <li>• Presentation</li> <li>• Evaluation</li> </ul>
Hospitality and catering	<ul style="list-style-type: none"> <li>• Microbes</li> <li>• Pathogenic bacteria / food poisoning</li> <li>• Personal hygiene</li> </ul>	<ul style="list-style-type: none"> <li>• Food safety</li> <li>• Food safety rules in the kitchen</li> </ul>	<ul style="list-style-type: none"> <li>• Food Hygiene</li> <li>• Rules in the kitchen</li> </ul>	
Year 8	Resistant Materials	<ul style="list-style-type: none"> <li>• Design Ventura Challenge</li> <li>• Designer research Yinka Ilori</li> <li>• Product design</li> </ul>		
	Fashion	Bugs and Beetles		

		<ul style="list-style-type: none"> <li>• Theme research</li> <li>• Artist research</li> <li>• Developing a print design</li> </ul>	<ul style="list-style-type: none"> <li>• Block printing</li> <li>• Developing a print design</li> <li>• Developing a repeat pattern</li> <li>• Introduction to the sewing machine</li> </ul>	<ul style="list-style-type: none"> <li>• Design development</li> <li>• Final piece – wall hanging</li> <li>• Personal response</li> <li>• Pattern and decoration</li> </ul>
	Hospitality and catering	<ul style="list-style-type: none"> <li>• Food Provenance</li> <li>• Primary and secondary processing of food</li> </ul>	<ul style="list-style-type: none"> <li>• Organic farming</li> </ul>	<ul style="list-style-type: none"> <li>• Intensive farming</li> </ul>
Year 9	Resistant Materials	<ul style="list-style-type: none"> <li>• Design Ventura Challenge</li> <li>• Designer research</li> <li>• Product design using waste materials</li> </ul>		
	Fashion	Japan		
		<ul style="list-style-type: none"> <li>• Cultural Research</li> <li>• Cover design</li> <li>• Shibori</li> <li>• Designer research</li> <li>• Fashion design</li> </ul>	<ul style="list-style-type: none"> <li>• Origami</li> <li>• Paper manipulation</li> <li>• Product research</li> <li>• Design idea</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to the sewing machine.</li> <li>• Personal response</li> <li>• Evaluation</li> </ul>
Hospitality and catering	<ul style="list-style-type: none"> <li>• Microbes</li> <li>• Personal hygiene</li> </ul>	<ul style="list-style-type: none"> <li>• Food safety</li> <li>• Rules in the kitchen</li> </ul>	<ul style="list-style-type: none"> <li>• Food Hygiene</li> <li>• Rules in the kitchen</li> </ul>	

## KS4 Curriculum

<b>Year 10</b>	<b>Autumn term</b>
OCR Cambridge National  Engineering	<ul style="list-style-type: none"> <li>• Introduction to course</li> <li>• Speakers</li> <li>• Product analysis, research, drawing and design</li> </ul>
Eduqas Art, Craft and Design syllabus (Textile design)  Fashion	<ul style="list-style-type: none"> <li>• Oceans</li> <li>• Theme investigation</li> <li>• Artist/designer research</li> <li>• Creative hand embroidery and embellishment</li> </ul>
WJEC level 1/2  Hospitality and Catering	<ul style="list-style-type: none"> <li>• Introduction to course (WJEC new spec level 1/2 vocational award)</li> <li>• Food hygiene &amp; safety</li> <li>• Introduction to bread making</li> <li>• Waiting on scheme</li> </ul>
<b>Year 11</b>	
OCR Cambridge National  Engineering	<ul style="list-style-type: none"> <li>• Isometric drawing</li> <li>• Orthographic drawing</li> </ul>
Eduqas Art, Craft and Design syllabus (Textile design)  Fashion	<ul style="list-style-type: none"> <li>• Structures</li> <li>• Artist research</li> <li>• Sampling</li> <li>• Experimenting</li> <li>• Design and development work</li> </ul>
WJEC level 1/2  Hospitality and Catering	<ul style="list-style-type: none"> <li>• Nutrition</li> <li>• Menu planning</li> <li>• Practice NEA</li> </ul>