



DESIGN & TECHNOLOGY

Curriculum Intent Statement

Department of Design and Technology

Ballakermeen High School

Curriculum vision: The Design & Technology curriculum offers exciting, inspiring, rigorous opportunities for students to work with a broad range of materials and design processes. Students will develop a variety of skills and techniques using some of the latest technology. Using creativity, imagination and careful analysis, pupils will design and produce products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values.

Our Art curriculum will provide students with the opportunity to:

- Learn how products can be manufactured and the industrial opportunities available to them.
- Understand the importance of our environment and we can become more responsible and sustainable as a community.
- Learn a wide range of subject specific knowledge for further educational opportunities.
- Develop imaginative thinking and evaluate how products can be improved for a user or our society.
- Discover the joy of designing and making innovative products.
- To be able to design and develop a range of products using a wide selection of materials to manufacture.
- Select appropriate tools and techniques for making a product, whilst following safe procedures within the faculty.
- Become more resilient individuals through stretch and challenge opportunities.

Curriculum Overview – Design and Technology

	YEAR 7	YEAR 8	YEAR 9	YEAR 10	YEAR 11
PRODUCT DESIGN	<ol style="list-style-type: none"> How to manufacture a portable phone stand from plywood. Design a range of phone stands. Knowledge and understanding of timbers, boards, and sustainability & environmental impacts. 	<ol style="list-style-type: none"> How to use computer aided design programs to create 3D designs digital. Principles and experience of 3D printing. Packaging products. 	<ol style="list-style-type: none"> Design and make a desk LED lamp using a USB power supply. Knowledge and understanding of product design topics for assessments. Effectively evaluate products. 	<p>Students can continue to study one or more of the following D&T subjects:</p> <ol style="list-style-type: none"> WJEC Product Design WJEC Graphic Communication SQA Practical Cookery WJEC Textile Art SQA Practical Woodworking <p>Year 10 focusses on building practical skills within the specialist subject, this is usually through a number of assessments and projects.</p>	<p>Students will continue to develop and finalise their coursework within their specialist subject. Depending on the subject and exam board this can have different outcomes and timings.</p> <p>Formal examinations will commence in the final term of Year 11. Students who are to undertake a written examination in their subject (such as Product Design) will have experienced up to three Mock Examinations beforehand throughout Key Stage 4.</p>
GRAPHIC COMMUNICATION	<p>Students will learn a range of drawing and design skills in a fun and creative concept. From producing Mr Men and Little Miss characters to designing their own comic book fonts.</p>	<p>Students will continue to develop their design skills to produce a series of graphic products such as a magazine cover, game packaging, character design, and advertising material.</p>	<p>Students will experience more complex and advanced skills including computer-based graphics to develop their design skills and produce graphics-based pieces of their choosing e.g. company logo designs.</p>	<p>Projects also build on the knowledge and understanding for formal assessments and examinations within the specialist subjects.</p>	
PRACTICAL COOKERY	<p>Year 7 students will learn the importance of food safety and hygiene before creating a series of practical projects introducing skills such</p>	<p>Continue to develop their knowledge, understanding, and skills in Practical Cookery. They will experience more advanced dishes in the practical lesson with</p>	<p>Students will be working towards SQA National 3 experience to develop skills and understanding to produce a range of sweet and savoury dishes.</p>		

	as chopping, mixing, baking, etc.	greater independence required.		At the end of the academic year, subjects focus on the student's coursework for their qualification, this will continue into Year 11.	
TEXTILE ART	Design and make a fabric donut or silly scrap snake. Students will learn how to cut and joint fabric using hand skills as well as the sewing machine.	Continuing to develop their skills, students will become more independent to design and make a door hanger with a theme of their choice.	Students will be introduced to the world of fashion including designing and finding inspiration, producing a mock-up top. They will also produce a cushion inspired by an artist of their choice.	Regular assessments to track and monitor learning are implemented throughout the year.	
PRACTICAL WOODWORKING	Design and make wooden 'Blockbots' using pine. Students will learn how to use various hand tools and equipment safely and accurately.	Students will develop their woodworking skills and experience, producing a wooden acoustic amplifier, designed to fit their phone perfectly.	<i>Not currently running in Year 9. Will be introduced in September 2024.</i>		