

St Mary's CE High School Curriculum Map 2022-23



Subject: Technology

Year: 7

Design and Technology is an inspiring, rigorous and practical subject. Technology encourages students to learn to think innovatively to solve problems both as individuals and as members of a team. At SMHS, we encourage students to use their creativity and imagination, to design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. We aim to, wherever possible, link work to other disciplines such as mathematics, science, engineering, computing and art. Students are also given opportunities to reflect upon and evaluate past and present design technology, its uses and its effectiveness and are encouraged to become innovators and risk-takers.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
CONTENT	Design Technology Racing Cars Students will design and make a toy racing car, their challenge is to create the fastest car by applying their knowledge of forces and aerodynamics		Textiles Gadget Cases Inspired by a Textiles artist of their choice students design and make a case for their chosen gadget. Student will learn how to use measurements to create their own pattern pieces.		Students investigate a series of nutritional dishes and explore the eat well plate. They will develop skills in a range of cooking techniques. Students will also understand ingredient sources and seasonality	
Skills	<ul style="list-style-type: none"> • Understanding motion, force and aerodynamics. • Create a design that links to subject knowledge gained • Develop workshop skills using the following hand tools; Tenon Saw, Coping saw, hand drill, file and sandpaper. Quality control – enabling students to show high standards of outcome		<ul style="list-style-type: none"> • Basic pattern cutting skills with the ability to use correct symbols • Basic hand stitching skills • Development of sewing machine skill and the use of satin stitch • The basic construction of a textiles product Construction of plain seam		<ul style="list-style-type: none"> • Chopping and knife skills • Safe cooking temperatures • Redesigning recipes Planning a well balanced dish	
Extended Learning /Extension Activities	Frequency and length Students are given a homework menu with a series of differentiated tasks. On occasion where a student fails to complete the classwork set, they will be expected to finish work at home.			Example of learning and assessment Produce an A4 page on what ACCESS FM means. Include questions for each section that could be used when analysing a product. <ul style="list-style-type: none"> • Complete the orthographic sketch with accurate dimensions and colour. Write a paragraph explaining what an orthographic projection is and why it is used. • Collect images of soft/fabric phone cases (10 minimum) and create a moodboard. You must include keywords and 3 points about decorating techniques used 		
Exemplar Assessment Opportunities	Students will be assessed on subject knowledge, designing, manufacturing and evaluating for each rotation. Over across the academic year students will undergo up to 12 assessments which inform their report.			<ul style="list-style-type: none"> • Product Analysis of an existing toy car • Decoration and construction of Product • Evaluation of Final Product 		

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Formal Examination	During the examinations week, students will be tested on the area technology subject they are learning about that term. They will be assessed on either Design, Make, evaluating or their technical subject knowledge
Student Independent Learning Tasks	Students are given a homework menu with a series of differentiated tasks.
Independent Active Learning	Students are encouraged to complete recipes at home to practice their cooking skills and especially timings, ensuring that their dish is complete within the allotted hour. Extension tasks will be found on all homework menus, which will stretch and challenge students beyond what they have learnt in the classroom.
Parent/Carers can help by:	By regularly checking Show My homework to see the homework tasks set by teachers. Asking their child to explain what they have been doing in lessons, recapping what they have learnt.
Extra-curricular and enrichment activities	At various times of year the department will offer extra-curricular clubs for KS3. St Mary's regularly enter local and national competitions.