



SAINT JOHN WALL CATHOLIC SCHOOL

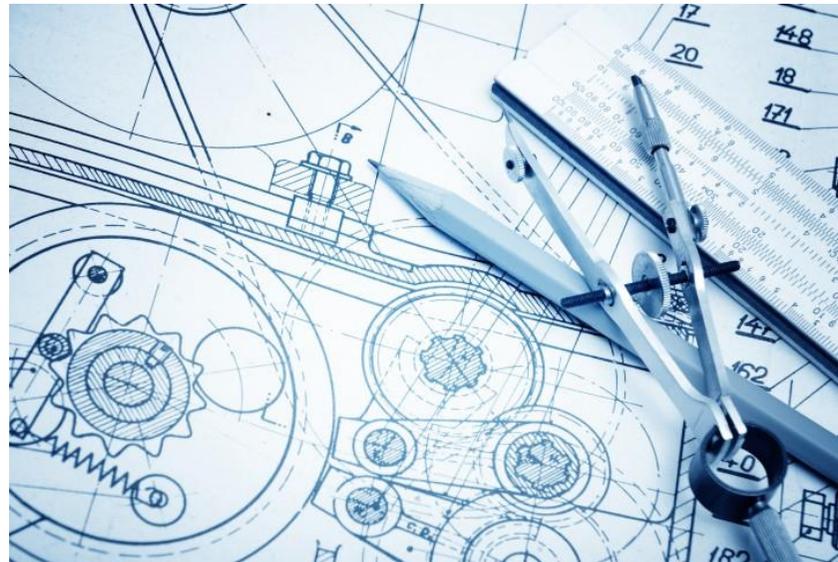
A Catholic School For All



Departmental Schemes of Work

Curriculum Intent: “To educate each and every unique child in our care to hear and respond to what God calls them to be”.

Year 8 Design and Technology



2 Timothy 3:17

That the man of God may be competent, equipped for every good work.

Year 8 Design and Technology Scheme of Work Overview

Sequencing of topics	Students study Product Design on rotation is Food Nutrition. They study one making project in depth over 1 and half terms, rotating after February half term. Year 8 design and make a coat hook.		
Calendared assessments	At the end of each half term.	Development homework	Homework booklet available in the homework and exams section of the school website. Please also research the career pathways using the links below.
Career Links	<ul style="list-style-type: none"> • Welder/Fabricator- https://nationalcareers.service.gov.uk/job-profiles/welder • Packaging Technologist- https://nationalcareers.service.gov.uk/job-profiles/packaging-technologist • Marketing Executive- https://nationalcareers.service.gov.uk/job-profiles/marketing-executive 		
Personal	<i>Cross curricular - Our School Values- SMSC - Cultural capital-</i>	<p>We encourage the development of skills, knowledge and understanding that help pupils make sense of their world as an integral part of the school’s work. We provide a range of experiences that encourage exploration, observation, problem solving, critical thinking and discussion. Design and technology utilises skilled acquired in Maths, Science, IT, English, RS, in fact most subjects across the curriculum</p> <p>Grateful – For the skills we have been given and the opportunities to use them. Hopeful – That our future needs will be met by our vocational needs Curious – about everything we do, don’t be afraid to try new ideas and ask searching questions</p> <p>The teaching of design and technology offers opportunities to support the social development of our pupils through the way we expect them to work with each other in lessons. Our groupings allow pupils to work together, and give them the chance to discuss their ideas and feelings about their own work and the work of others. Through their collaborative and cooperative work across a range of activities and experiences in design and technology, the pupils develop respect for the abilities of other pupils, and a better understanding of themselves.</p> <p>Design technology prepares pupils to take part in the development of tomorrow’s rapidly changing world. Creative thinking encourages pupils to make positive changes to their quality of life. The subject encourages pupils to become autonomous and creative problem- solvers, both as individuals and as part of a team. It enables them to identify needs and opportunities and to respond by developing ideas, and eventually making products and systems.</p>	
Progression model	What knowledge will pupils develop? (Including key terminology)		What skills will pupils develop? (Including literacy & Numeracy)
	<p>Year 8 students will design and make a resistant materials-based product that builds upon the knowledge gained in year 7. They will learn how to work accurately and are introduced to different finishing process and fixing processes they have not done previously. Initially they will research the product and create a design brief and a specification based on the design brief. They have to generate a number of initial ideas and, following a peer assessment session, they have to develop a chosen design that they will make. During year 8, students learn about different materials including polymers, wood and metals not covered in year 7. The product requires the use of processes to create a quality finish, finishes to each of the materials used to manufacture the product.</p>		<ul style="list-style-type: none"> • Design communication techniques • Material science, polymers, wood metal • Material finishing • Plastic dip coating • Fixing skills including permanent and temporary fixing • Evaluation skills including peer and customer evaluations. • Use of different hand tools to produce a more complex product. <p>The skills pupils will develop to ensure a smooth transition into KS4 include, Communication skills both literally and graphically. Improved practical skills. New, exiting techniques they have not used before. Team work Sustainability and environmental issues</p>