

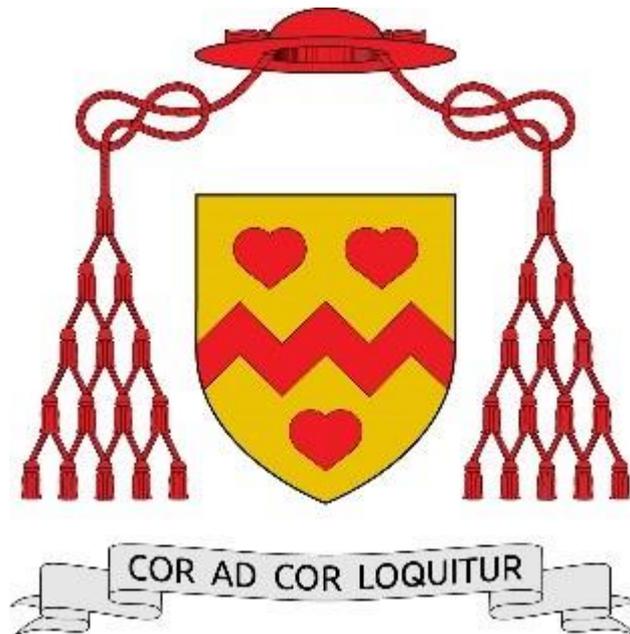
Welcome to Design & Technology

I hope you find this page helpful in understanding the Design and Technology programme at St John Henry Newman School.

If you have any queries regarding the subject, please do not hesitate to get in touch with me.

Rebekah Hurst

Head of Design & Technology



Introduction

The role and impact of technology in both our personal and working lives is ever growing. Understanding how people shape technology and how technology shapes people's interactions with each other and the natural world is important not only for those who research, develop and implement new technologies but also for all those people and organisations that have to use those technologies in their working and personal lives.

Staff

Mrs R Hurst – HOD 3D specialist KS3, KS4 & Post16 D&T teacher.

Mrs J Cooper – Food specialist teacher PT.

Mrs L Clitheroe – Art and Design & Technology teacher PT.

Mrs N Morgan – D&T Technician PT.

What is design and Technology?

Design = to solve problems.

Technology = the tools to help us solve the problem.

Key Stage 3

Students at Key Stage 3 are assessed on 5 areas in line with the National Curriculum. These are:

- Designing
- Making
- Technical Knowledge
- Evaluating
- Cooking and nutrition

Year 7 and 8

In yr7 Pupils are introduced to Design and Technology with small design and make activities in a selection of material areas, which include Timbers, Polymers, Card and Paper, Textiles and Food. It also includes Sustainability element. In yr8 they get the opportunity to carry on and develop their skills in and knowledge of the subject through both practical and theory based tasks. Before make a choice of with DT strand they may like to take on in their further studies. GCSE Design and Technology, BTEC Construction and Level 2 courses in Food.

Assessment will be made throughout the year and focused around the following key areas of Technology:

- Research and Investigation
- Analysis
- Testing and Evaluating
- Manufacture

Year 9

Key Stage 4 Year 9, 10 and 11

The Design and Technology Curriculum in Years 9, 10 and 11 aims to continue the development of students' skills in designing and making.

AQA GCSE Design and Technology

AQA GCSE Specification from September 2017

Controlled assessment (written folder and practical outcome) 50%

Final examination 50%

Year 9&10 Design and Technology course builds on the previous progress of the students and allows their confidence to grow. Students will complete a range of mini NEA design and make tasks in the following materials areas of Timbers, Polymers, Card and Paper, Textiles. This process builds their confidence when using a range of tools and machines. Students will also learn how to draw accurately as well as studying about smart materials and issues such as sustainability and the environment and learn how it impacts on design.

Year 11 allows students to undertake a major design and make task that accounts for 50% of their final grade. The remaining 50% is a written exam that will require students to answer

questions that test their knowledge, some of which require a piece of extended writing to be produced.

GCSE VCert Food and Cookery Level 2

This qualification is suitable for learners aged 14-16 studying their Key Stage 4 curriculum. This qualification is designed for learners who have an interest in food and cookery. It will provide learners with experience of using different cooking techniques and methods to enable them to use these within further education or apprenticeships. It will give them a basic understanding of the skills required for a career in food.

- The industry – food and drink
- Job roles, employment opportunities and relevant training
- Health, safety and hygiene
- Food preparation, cooking and presentation
- Nutrition and menu planning
- Costing and portion control
- Specialist equipment
- Communication and record keeping
- Environmental considerations

Level 2 First Award in Construction and the Built Environment

The BTEC Level 2 Extended Certificate in Construction provides an opportunity for students to study and gain experience of the construction industry. The elements of the course are taken over 3 years.

- Unit 1 External examination
- Unit 2 Exploring mathematical and scientific principles
- Unit 3 Construction and Design – Designing a 4-bedroom house.
- Unit 5 Exploring Carpentry and Joinery – Practical element

Students study both technical and practical aspects of the industry with occasional site visits arranged to develop a more work-related context to the course.

The BTEC Level 2 Extended Certificate in Construction course looks at why the construction industry is an important sector within the UK economy and the key role it plays in all our lives. Students will gain an overview of the types of activities undertaken by those working in the construction industry such as job roles and projects. Students will also gain knowledge and understanding of health, safety and welfare in the construction industry. The practical elements of the course focus on carpentry and joinery, enabling students to construct frames using appropriate hand tools, materials, and personal protective equipment.