

DESIGN AND TECHNOLOGY

All students have the opportunity via the KS3 curriculum to gain a full understanding of engineering principles, nutrition, health and safety and practical applications in both. At KS4, if students select to progress with either subject, they will learn a broad curriculum that will allow them to study STEM subjects at further education.

In Engineering, students develop a creative, yet technical understanding of the subject. They will also develop practical skills that will allow them to achieve success in an ever complex technically driven world. Students will learn both CAD and CAM and practical skills within a workshop environment.

In the food lessons, students are taught a wide range of nutritionally focused learning that will allow them to understand how to make informed choices, now and in the future. Practically, students will develop a range of practical skills, via cookery lessons. The recipes offered are all adaptable in size and ingredients and there are options to suit for all dietary needs. We know that many of the recipes are used by students long after they have left school. The cookery lessons develop pupils practical skills and also allow students to develop responsibility, independence and time-management.

In both subjects' students learn to evaluate and critique their own ideas and the works of others so they can apply this learning to future work and choices.

There is a high level of cross curricular learning in the Design and Technology curriculum which allow students to apply learning from, and in, other subjects – for example maths is used in many formats in engineering, reading and understanding increasingly complex recipes is required in the food lessons. Both subjects require a significant knowledge of science.

We have a structured curriculum that builds from the learning required at KS2 and that has the foundations of learning at KS5. It is structured so all students can succeed. Our curriculum is ambitious and fulfils the requirements of the National Curriculum. Teachers will guide students through a planned and scaffolded curriculum with planned assessment points which allows students to articulate and demonstrate their learning in an applied format.

All teachers in Technology have real world experience and an understanding of the subject that they teach.