

Siddal Moor Technology Curriculum Outline - KS4

Students can choose to study Technology subjects at GCSE level under the following disciplines,

Electronic Products

Food Technology

Graphic Products

Resistant Materials

Each discipline is assessed under the AQA GCSE syllabuses and require students to complete a extended piece of controlled assessment which equates to 60% of their final grade. They will also sit a final examination making up the other 40%

GCSE Electronic Products	<p>During year 10 students study the following topics through short focused task and project work.</p> <p>Basic electronics counting circuits (electronic dice) Operational amplifiers (automatic guided vehicle) Microcontrollers</p> <p>Towards the end of year 10 into year 11 the students complete their controlled assessment, where they investigate, design, make and evaluate their own electronic product.</p>
GCSE Food Technology	<p>Throughout the GCSE Food Technology course students will:</p> <ul style="list-style-type: none"> • Learn about the functions and properties of foods and how ingredients can be combined. • Build on and develop their practical cooking skills. • Experiment and develop creative and innovative new food products. • Learn about nutrition and a healthy diet. • Complete an extended piece of written controlled assessment which requires them to follow the design process to develop a new product. <p>Study will be through a range of practical and written activities.</p>
GCSE Graphic Products	<p>During Year 10 students will develop the skills needed for their controlled assessment. These include:</p> <p>Sketching and drawing techniques Materials and their properties Environmental/ social/ moral /ethical issues Famous designers Modelling and testing methods Research methods CAD/CAM Manufacturing/ machinery/ tools and equipment.</p> <p>Towards the end of year 10 students start their controlled assessment, where they select a design based project of their choice. This continues into Year 11, followed by examination preparation.</p>
GCSE Resistant Materials	<p>During Year 10 students will develop the skills needed for their controlled assessment. These include:</p> <p>Sketching and drawing techniques Materials and their properties Environmental/ social/ moral /ethical issues Famous designers Modelling and testing methods Research methods CAD/CAM Manufacturing/ machinery/ tools and equipment.</p>