

# Resistant Materials Technology

## Outline of Course.

GCSE RMT covers a wide range of activities based on designing and making products that are manufactured using materials such as wood, metal and plastics in many forms. As well as learning hand skills, students will use a range of industrial processes to shape and form materials into functioning products. Over the course of two years they will develop a range of creative designing and making skills, technical knowledge and understanding relating to RMT and invaluable transferable skills such as problem solving and time management.

GCSE Resistant Materials Products consists of two units:

Unit 1	Unit 2
<b>Creative Design and Make Activities</b>	<b>Knowledge and Understanding of RMT</b>
This unit is internally assessed under controlled conditions. Students must complete a design and make activity.	This unit is assessed through an examination paper which is set and marked by the Exam Board The examination paper will consist of multiple-choice, short-answer and extended-writing type questions.
Coursework 100 Marks	Examination 80 Marks
60%	40%
Time 40 Hours Controlled Assessment	Time 1Hour 30mins

Year 10 - During Term 1 students will undertake a short **3 week** settling in project, after which, they will begin their full GCSE Coursework project.

### Unit 1: Coursework

The Unit 1 Coursework will begin in Term 1 of Year 10 and continue over Terms 2 and 3 with completion by the summer break. This project must be completed under strict supervision and in accordance with Exam Board guidelines (controlled assessment). The A3 portfolio produced should be approximately thirty detailed pages and accompanied by a quality made item. The project is broken down into 6 sections; Analysis; Design; Develop; Planning; Make; Test and Evaluate. Students will receive the marking criteria and strict deadlines for the completion of each section. Students will work with, a range of materials; tools and equipment; including CAD/CAM.

### Unit 2: Examination

One lesson per week will be spent on the theory for Resistant Materials Products, and the formal written examination. The exam will take place during the final term of Year 11 on a date specified by the exam board. Care should be taken if parents are thinking of taking students out of school at any time e.g. for holidays, as this may put them at a disadvantage.

Students will be expected to spend between 1 and 2 hours per week working on this subject at home (see homework timetable). Good time management is important.

### Equipment Required

Students are expected to attend lessons with the correct equipment as specified in their Personal Organiser.

They will require an A3 presentation folder for their coursework (Can be purchased from the Technology Department £3.00).

Revision Guides (may be purchased through the Technology Department price TBA).

### How parents can help at home

Check organisers for deadlines and homework regularly. Contact staff where you have concerns, discuss issues, involve students. We are all working to the same end.

Encourage students to make use of time allocated for practical work and revisions sessions at after school clubs, lunchtimes and Saturday Morning School.