

Resistant Materials Technology

Key Stage 3 Curriculum Information

Subject Contact: Dennis Buhr

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Key Stage 3

This course has been designed to encourage students to be able to design and make products with creativity and originality, using a range of materials and techniques. Students will be enthused and challenged by the range of practical activities.

Students will spend one third of the academic year with Graphics and Resistant Materials with focused practical tasks on health and safety in the workshop, safe and correct use of workshop equipment, properties and uses of materials, joining techniques, social, moral, ethical and sustainability issues related to the use of materials. Skills gained during focused practical tasks will be used to make products suitable for the design brief chosen by students.

Resistant Materials Technology

Key Stage 4 Curriculum Information

Subject Contact: Dennis Buhr

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Key Stage 4 – Years 10 & 11

Students will develop a working knowledge of woods, metals, plastics and composite materials is expected but other materials may be used in addition. The use of new technologies is encouraged throughout the course. Students will need to consider sustainability and environmental impact of designing a product which is also a key feature of the course. Full credit will be given to students who undertake innovative work, including projects with very high CAD/CAM content.

Assessment:

Assessment consists of written paper exam which equates to 40% of the overall grade, and a controlled assessment where students will be required to design and make a project. This equates to 60% of the overall grade.

Progression:

Resistant Materials GCSE is an ideal grounding for anyone wishing to go on to A-level Product Design courses and then on to Higher Education. Alternatively this course is also suitable for those wanting to progress into a relevant apprenticeship in craft or engineering based careers, providing students with problem solving and practical skills that are sought after by employers.

Key stage 4 - Year 9

Foundation year to study the skills knowledge and understanding of the materials: wood, metal and plastics, in readiness for qualification which will begin in year 10 and finish in year 11.

