

## Design Technology

### Key Stage 2 (Pupils in year 3, 4, 5 and 6)

All students in Key Stage 2 enjoy a creative curriculum approach to design and technology. The work within the subject is generated from a theme that informs all the teaching and learning across subjects. Every half term the topic changes to a new exciting theme.

Within the themes in DT, and through making within focused practical tasks, students explore and experience different materials from graphic materials like paper and card to more resistant materials such as wood. Students study the basics of material properties alongside practical skills in measuring & marking, cutting and decorating.

Through designing students can be creative and also start to understand how choices have to work within restrictions. Students are also introduced to the possibilities of the work shop for making and creating along with health and safety aspects.

### Key Stage 3 (pupils in year 7, 8 and 9)

Students in Key stage 3 complete a series of projects around a half term long that build on their experience of resistant materials to include metal and plastic as well as other areas of the DT curriculum such as textiles and systems and control.

Students further study material properties alongside practical skills in measuring & marking, cutting, shaping, (including workshop machines) and finishing. Through designing students can be creative and are encouraged to problem solve by not only working within the restrictions of a design brief and through developing a specification but start to design for other people from their selves

### Key Stage 4

Students in key stage 4 focus on the resistant materials aspect of the DT curriculum and start by building on their knowledge and skills of the properties of wood metal and plastic as well as their practical skills.

All students undertake a major design and make task set by OCR exam board for entry level DT. Students work within the design task around lighting and use 21st century technologies to produce

an e-portfolio including video clips to explain material choices, design developments, planning, processes, and evaluating all aspects.

OCR Website

<http://www.ocr.org.uk/qualifications/by-type/entry-level/>