

Design & Technology

Year 8

Overview: The year is divided into six modules providing a carousel system. All pupils participate in four 'Product Design' activities (Electronics, Resistant Materials, CAD Graphic Design, CAD/CAM) along with their Food Technology and Textiles entitlement.

Term 1 Programme of Study: Within term one students will undertake two of the modules of Design & Technology. They will take either Resistant Materials and Electronics, Textiles and Food or CAD Graphic Design. In Resistant Materials and Electronics students will be introduced to basic workshop tools and equipment and the purpose of a variety of electronic components. By the end of the module student will have designed and created MP3 speakers. The Graphics scheme of work aims to introduce Year 8 students to commercial design utilising Adobe Illustrator and Solid Works to design logos and virtual products. The Food technology module aims to further develop students understanding of healthy eating as well as continue to increase their practical skill base. Students will cook a variety of snack products. In the Textiles and CAD/CAM Year 8 students are challenged to design and make a product related to aesthetic, environmental and ethical issues. The design and making process involves a series of practical tasks which develop student's existing textile and CAD/CAM skills as well as introducing them to new ones, operating new software and machinery to produce a bag.

Term 2 Programme of Study: Students will carousel and undertake two of the areas they did not undertake in term 1.

Term 3 Programme of Study: Students will carousel and undertake two of the areas they did not undertake in term 1 or term 2.

Homework: In Design & Technology pupils will be given weekly homework tasks after their double lesson, these vary from; drawing exercises, question and answer, design work, spelling practice, ingredient purchasing, research, lesson recall and literacy tasks.

Assessment:

Pupils will be assessed at the end of each topic based on pupils team work, creativity, experimentation, presentation and understanding of processes, tools, materials and ingredients within each area of Design & Technology.

How parents can support learning: In Food Technology parents can support pupils learning by encouraging pupils to participate in preparing family meals and their own school packed lunches. Parents should encourage pupils to partake in the family food shopping experience. Parents can also support students learning by encouraging students to discuss with them what they learnt in design technology each week. To aid students with homework issues parents can direct students to the following websites; www.technologystudent.com (general DT)

Learning resources: Pupils will be given all the worksheets and handouts needed to complete these modules. Pupils will be expected to buy their own food ingredients (List will be provided by class teacher) as the experience for shopping for themselves is considered a life skill. If pupils have a home computer then we recommend they download and practice on 'Google SketchUp' (a free architectural drawing package).