

DESIGN & TECHNOLOGY

Teacher in charge - Mr A. Jelf

Aims

To provide the pupils with opportunities to complete extended design tasks which enable them to use the skills and knowledge developed during Years 7 and 8. To provide an end of year assessment, based on the progress of pupils across the Key Stage in all specialist areas of Design and Technology.

In particular the work will concentrate on designing and prototyping cardboard products that are creative and made with a high level of accuracy.

Course Description

Pupils are timetabled for 3 x 50 minute lessons per week of Design and Technology.

The course consists of five modules that the pupils experience on a rotational basis. The modules may take place in a different order depending on the demands on availability of resources and equipment.

The following work is covered,

PRODUCT DESIGN - Teacher: Mr A. Jelf

- Young enterprise project
- Communication Skills
- Application of the Design Process to produce a creative design folder and an artefact
- Computer aided design and computer aided manufacture

FOOD - Teacher: Mrs L. De-Gay

- Research and design based on cultural and regional dishes
- Packaging, recycling and labelling
- Development of Food Science and functions of ingredients

TEXTILES - Teacher: Miss R. Waller

- Exploring colour pattern and texture
- Exploring geometric embroidery patterns
- Develop samples made using a variety of different techniques
- Art Movement inspired bag and design styles in history
- Research other artists
- Construction techniques using textiles
- Block and stencil printing for textiles
- Understanding of social and moral and environmental issues in Textiles

GRAPHIC PRODUCTS – Teacher: Miss V. Richards

- Sustainability
- Research into the 6 R's
- Understanding how to re-use materials
- Exploring photography and basic photographic techniques

3D DESIGN – Teacher: Mr B. O'Leary

- Generating design ideas from primary observation
- Research into sculpture and relevant artist and designers
- Design and prototype a range of different designs for an outdoor sculpture inspired by primary and secondary sources

Range of Activities

Most of the lessons will be based around design activities that will involve responding to a design brief. Pupils will be encouraged to take home the work they produce though in some instances this may not be until the end of a module or term.

Homework Requirements

Homework will normally be set each week and will usually be follow-up work to lessons or preparation or research for the following week's lessons.

National Curriculum Assessment Procedures

Each module (or project within a module) will be assessed by the teacher and the results recorded. Pupils will be encouraged to develop self-assessment skills through regularly evaluating their own and others' work. At the end of the year pupils' progress and level of attainment will be reported to parents.