

Curriculum Organisation:

Each student will study two lessons of this subject each week. Groups in this subject are mixed ability.

Subject Content:

What is studied over the Academic Year

- Product Design** In this project students will identify existing products and develop their own solution. This is an exciting curriculum project where students design, build and test their own Jitterbug. This will allow students to expand their knowledge in several areas including engineering, and several Design & Making processes including CAD/CAM.
- Resistant Materials** Building on practical skills from Year 7 and introducing new skills and techniques. In Year 8, students will start to have a greater input in research and design, giving them insight into the design process. The main element of this unit of work is the use of CAD/CAM as well as hand tools and machine tools to produce a clock.
- Textiles** Students will have the opportunity to design and make 2 items; a personalised draw cord bag and patchwork recycled cushion cover. New skills will be introduced such as tie dyeing, applying zips, applique and many more textiles techniques. This is to add to their existing practical skills and knowledge of the subject.
- Food** Students will build on practical skills from Year 7 and learn new processes. They will adapt recipes to create dishes that will be healthy and appeal to a wider range of consumers. They will investigate the properties of key ingredients and understand why they are used in manufactured foods.

How are students assessed?

Students are assessed using National Curriculum Levels for the designing and making of various products in the various material areas of Design and Technology.

What skills are developed?

The development of their design skills, including the ability to research, analyse, create ideas and develop them, plan and organise the production of a product and evaluate the end result. They are also developing their making skills in all the different materials available, including their knowledge of tools and equipment and processes.

What equipment is needed?

When working in workshops they might need aprons, they will need to bring in various ingredients for food projects.

How can parents help?

Encourage students to be observant of designs and question how and why they are different.