



St Benedict's Catholic School

The Catholic Secondary School for West Suffolk

DT CURRICULUM GUIDE

Year 9

Pupil will follow a wide ranging DT curriculum during Year 9 which operates on a carousel system. Which modules/areas they study in a particular term depends upon which DT group they are in.

Product Design 1

CAD/CAM Jewellery

Pupils take part in a team project – to design and make a range of jewellery items, including rings, bracelets, tie pins and rear rings. Pupils will be provided with the necessary 'findings' such as pins, chains and ring blanks. The final products can be made from a mixture of plastic and pewter which is manufactured using a casting technique. Their products must be suitable for an identified target market group or to be worn on a particular occasion. CAD design processes are used to enable the pupils to develop their chosen ideas and CAM machinery is used to make the more intricate smaller parts of their products.

Product Design 2

Pupils focus on developing their modelling skills by designing and manufacturing a free standing desk lamp. Before modelling takes place pupils consider relevant ergonomic issues such as comfort, safety ease of use. At all times during this project pupils are encouraged to make use of CAD/CAM equipment in order to make a more realistic final product. Traditional work shop hand tools and machinery are also used in the construction of the final product.

Core Skills 1

Pupils study a range of different design related topics in this module including;

- Moral and economic issues associated with designing and making. For example, what are the consequences of mass production and who does it benefit? What is the impact on the global community?
- A look at some of the World's best known and loved products, including examples from the world's of furniture, architecture, household products and the electronic gaming industry.
- Material properties – how do certain materials have to perform in different environments?
- How do designers go about researching before they begin to formulate their own ideas for products.

Core Skills 2 (Food)

Food Technology

Module one

Module Two