

St Joseph's RC Middle School

DT Curriculum

DESIGN TECHNOLOGY

In design technology we aim to give the children an insight into the world of designing and making, and how it affects our lives.

We analyse products, recognise problems, identify changes we would like to make and through investigation develop design ideas. Alongside this we study the properties of materials and through focused practical tasks we develop skills and incorporate them in making the designs.

The materials we use include wood, plastic, mouldable materials, food, textiles, mechanical components, card and graphic media. Quality materials are provided for the children encouraging quality products. We provide opportunities for children to use computers to draw, design and model their own ideas.

The children will be taught to use tools and equipment in an effective, safe and hygienic manner. Throughout all design and technology work the children are taught to work with consideration for others, to develop an ownership of their work, and extend their own criteria for a successful project.

Y5

- Pupils are encouraged to explore a broad range of ideas and develop their graphics skills in order to create an effective name badge. This includes: researching name meanings, Thumbnail sketches, using silhouettes as a design tool, using the colour wheel, designing an effective font, using ICT as a design tool and using a 'press' to make a badge.
- Pupils design and make a windchime developing their practical skills and process knowledge by: cutting, filing and drilling aluminium and brass and using clay which is fired and glazed to change its properties.

Y6

- Pupils begin Y6 with a 3D graphics course for the first ½ term. This foundation is developed through years 7 and 8.
- Design and make a hand held game.
Pupils learn about cutting, shaping and joining timber which includes hardwood, softwood and manmade boards.
They create a computer model to demonstrate framing joints and use ICT to create applied graphics.
- Pupils learn about basic mechanisms which they can create from lego and control the mechanisms with the use of ICT.