



Overview:

Year 8 Design and Technology covers Product Design & Make, including Resistant Materials, CAD/CAM, Systems & Control, Textiles and Cooking/Nutrition – taught in specialist rooms. A variety of creative and practical tasks are undertaken to develop the skills required of a designer/maker. Cooking techniques and an understanding of nutrition and healthy eating are also developed.

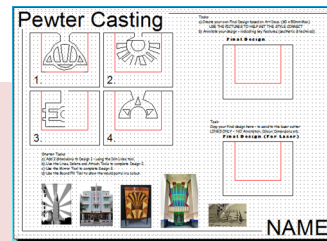


Year 8

DESIGN & TECHNOLOGY

Food & Nutrition

You will be cooking a range of dishes e.g. fish cakes, savoury rice, muffins, pizza pin wheels. You will be expected to consider the sustainability of food, including how far it has travelled from field to fork. You will learn about alternative proteins and cook with some such as quorn and tofu. You will also learn how to make your own pasta.



Product Design

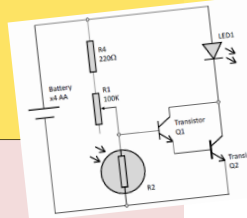
Your first project is a Design & Make involving CAD/CAM—Computer Aided Design and Manufacturing. This project is about creating an Art



Deco themed piece of jewellery or bag tag. You will design on a computer, a laser will cut out a mould, and you will pour molten pewter into the mould.

You will learn to programme and run a LEGO EV3 robot. You will start by getting it to move and make sounds. Followed by using sensors (e.g. light sensor) to help follow complex courses—competing against others to do it the most quickly and efficiently.

Electronics—you will learn to solder, fixing components onto a circuit board to create a multi-coloured night light. You will find out about what the components do, and how they work together to make a working circuit. Plastics, you will heat up and form thermo-plastics to create a support for your circuit.



Textiles

This year you will learn to use the sewing machines to speed up part of the making allowing you to make something larger with a greater number of component parts.

In Textiles you will Design and Make a draw string bag. The bag will have multi-layered appliqué designs, based on a Kandinsky painting—'Squares with Concentric Circles'.

