

KS3 Technology Curriculum Overview

Head of Department - Miss K Garner

Department teaching staff - Mrs C Quade, Mr W Edwards

Assessment:

Teachers can choose specific skills / knowledge from the Trust Threshold Concepts to assess during each Scheme of Work. Improvement plans used to give generalised feedback to pupils in the class. Teachers can choose specific skills / knowledge from the Trust Threshold Concepts to assess during each Scheme of Work. These will be similar for groups who have different teachers for the same subject. These are to be in line with Trust Harmonisation. One improvement plan per Scheme of Work designed to support pupils in developing their ability to demonstrate the Trust Threshold Concepts. One graded piece of work per Scheme of Work. Currently pupils complete 6 SOW in both DT and Art.

Homework:

Set every other week. Self marking option on Google Forms and GCSE Pod. Paper based tasks are also issued when appropriate. Assessment of homework (formative) to be built into each Unit - minimum 1 per year group

Other Useful Information:

The department encourages pupils to help at home in practical activities and cooking / washing up.

Year 7

In Year 7 pupils will be exposed to a Food Hygiene focusing on Safety and Skills Building. Pupils will cover both theoretical and practical content which covers the basics of food hygiene, food storage and important temperatures. Pupils will learn how the Eatwell Guide can provide a balanced diet and will get the opportunity to analyse their own diet. Practical dishes including Fruit Salad, Pitta Pizzas and Seasonal Muffins will allow pupils to use a range of cooking methods to create predominantly savoury dishes. Within Design Technology pupils will create a Desk Tidy focusing on Manufactured Timber learning about the function of design and a range of manufactured timber components. Pupils will research existing designs to inspire their own work, analysing their findings. Pupils will use some basic CAD (Computer Aided Design) to create a small element of their design. Pupils will create their final design before evaluating the effectiveness of materials and practical work. Pupil will also complete a Cards and Boards unit where they will create a Pop-Up Book. Learning about stock forms and mechanisms before they design and develop their final product. Pupils will also learn about environmental issues and sustainability, as well as different people and cultures which should feature in their design.

Year 8

In Year 8 pupils will further develop their knowledge of Food, focusing of Food Provenance and Nutrition. Pupils will learn about where their foods come from and how it arrives on our plates. Pupils will further develop their understanding of Good Diet, learning about Nutrition and the importance of each Nutrient in the body. Pupils will develop their practical skills by making Macaroni Cheese, Bread Rolls and Vegetable Curry. Pupils will be expected to apply their knowledge of food provenance to their practical lessons, demonstrating they know where specific ingredients have come from. Pupils will begin to learn primary Textiles skills creating a Mini Monster using felt. Pupils will encounter a range of textiles materials and the industrial production techniques that are used to create clothing and other textiles products. Within Year 8 pupils will begin to further develop their understanding of both 2D and 3D CAD and how it is used in the Design Industry by designing and making a Puzzle Cube. Pupils will research successful existing designs and analyse the effectiveness of them. The Polymers Unit will allow pupils to understand a range of plastics and the difference between them, including a range of everyday products that are made using the different materials.

Year 9

In Year 9 pupils will consider Nutrition in greater detail, as well as exploring a range of Commodities. During this Unit, pupils will investigate special diets and how individuals who follow these must adapt how they ensure they are nutritionally well. Pupils will learn about deficiencies and the impact these can have on a person's health. Practical skills will continue to develop, with pupils making a Seasonal Soup and Rolls, Pasties and Brownies. Pupils will learn about how Food Technology considered the environment and sustainability, as well as further developing an understanding of food safety and food related illnesses. Pupils will develop and understanding of Metals by creating an Animal Lamp where they

will be expected to solder their own circuit with an LED which is built into their design work. Pupils will learn about electrical components and how to solder. They will design and develop through card modelling a net, which will be built to create the main body of the light. During Year 9, pupils will complete a mini Non-Examination Assessment (NEA) in the style of a Key Stage 4 coursework task. Focusing on Natural Timber, pupils will be expected to research, design and develop their Tree House ideas, before modelling their final outcome. Though recycling woods both from the outside world and in the classroom, pupils will learn how to work is a sustainable way and consider the environment.