



Learning over the year

Outline:

In Design Technology students will work on a rotational system of 7/8 weeks and finish with a unit test. This should enable all students by the end of the academic year to have experienced the 4 disciplines of Food Preparation and Nutrition, Product Design, Materials Technology and Electronics and Mechanical Systems. This should provide students with a foundation of knowledge and skills in the topics. Finally, enabling students to make an informed decision of which subject discipline they may wish to pursue in KS4.

Rotation 1: Food Preparation and Nutrition

During this topic students will aim to be more independent in the kitchen. The aim is to build on student's foundation skills to develop practical and theoretical skills in food preparation and nutrition. This will be achieved by application, research and testing of ingredients and completion of different food preparation tasks.

Rotation 2: Materials Technology

In this topic students will develop skills in working with a multitude of different materials and consider their working properties. The aim is to understand how to work with different tools and apply the correct equipment to the correct materials. Student's ultimate aim is work safely and independently with a multitude of materials and equipment to achieve a completed final outcome.

Rotation 3: Product Design

Students will learn about the basics of design, the design circle and design development. The aim is to develop student's practical and theoretical skills in creative design and the CAD/CAM. This will be done by the completion of a unit project, where students will design and create their own outcome.

Rotation 4: Electronics and Mechanical Systems

In this topic students will learn about the basics of systems. The aim is to further develop student's practical and theoretical knowledge of inputs, processes and outputs. This will be done by the exploration and completion of a unit project where students look at either electronics or mechanical systems.

Exam Board Information

Leading toward - AQA

Potential GCSE courses- Food Preparation and Nutrition, Design Technology Product Design, Materials Technology and Systems and Electronics

Exam board web link:

<http://www.aqa.org.uk/>

Subject Contact Information

Head of Design Technology

Mr C. Ellis

Email: CEllis@sybilandrewsacademy.co.uk

Extra-Curricular Links

Useful websites

Technologystudent.com

Mr-DT.com

childrensfoodtrust.org.uk/

Holiday visits

Design Museum

Science Museum

100% Design - exhibition

Gadgetshowlive - exhibition

Homework and assessment

Students will complete two pieces of home learning during each rotation. In addition, students will be assessed over the rotation and given levels based on the work they have completed. Finally, all students will have an end of unit test which they will be expected to revise and plan for at the end of each rotation, giving them an overall final level for each rotation.