

Design & Technology YEAR 7

Course outline:

During each of the three years of Key Stage 3 (Years 7-9) all pupils will experience working with each of the major materials in different areas of the Design and Technology Faculty (Food, Textiles, Graphics and Resistant Materials). The projects are taught on a rotation basis, so pupils will undertake them in different order, covering each year all the different aspects of the Design and Technology Curriculum. The aim of our Year 7 projects is to give pupils a good foundation on which to build in later years all the aspects of the national curriculum for Key Stage 3.

In Year 7 pupils will be introduced to safety aspects of the workshops. They will develop basic skills in Food Technology by studying "Bread around the World".

In Textiles they will learn about natural fibres and basic fabric construction. Pupils will design and make a small fashion bag using a variety of decorative techniques and processes. Pupils are also introduced to smart and modern materials.

In Resistant Materials they will learn about the design process and make a number of small projects which will develop their making skills while giving them the opportunity to use workshop tools safely and improve their confidence.

Assessment:

During each project individual items of work are marked using the whole school marking system for attainment and effort grading. The complete project is then assessed and recorded against national curriculum levels.

Homework:

Homework is set to support the schemes of work. It may be of a research nature or a continuation of a stage in the design process. Some homework will be set to build and reinforce knowledge of skills developed during the lessons. Homework is assessed using the whole school marking scheme criteria.

Reading list/Useful Websites:

www.tesco.com.uk

www.cadbury.co.uk

www.bbc.co.uk

Design & Technology Year 8

Course outline:

During each of the three years of Key Stage 3 (Years 7-9) all pupils will experience working with some of the major materials in different areas of the Design and Technology Faculty including Graphics and Resistant Materials. The projects are taught on a rotation basis, so pupils will undertake them in different order, covering each year all the different aspects of the Design and Technology Curriculum.

In Year 8 pupils develop their drawing skills including Isometric Orthographic and Perspective work. They will design logos and produce 'Nets' for card constructions. In Resistant Materials they will work with mechanisms and be introduced to the use of computer aided design and computer aided manufacture (CAD/CAM) to use in the making of various projects.

Assessment:

During each project individual items of work are marked using the whole school marking system for attainment and effort grading. The complete project is then assessed and recorded against national curriculum levels.

Homework:

Homework is set to support the schemes of work. It may be of a research nature or a continuation of a stage in the design process. Some homework will be set to build and reinforce knowledge of skills developed during the lessons. Homework is assessed using the whole school marking scheme criteria.

Reading list/Useful Websites:

www.Tesco.co.uk

www.Cadbury.co.uk

www.unitedbiscuits.co.uk

Design & Technology Year 9

Course outline:

During each of the three years of Key Stage 3 (Years 7-9) all pupils will experience working with each of the major materials in different areas of the Design and Technology faculty (Food, Textiles, Graphics and Resistant Materials). The projects are taught on a rotation basis so pupils will undertake them in different order, covering each year all the different aspects of the Design and Technology curriculum. The aim of our Year 7 projects is to give pupils a good foundation on which to build in later years all the aspects of the National Curriculum for Key Stage 3.

In Year 9 pupils will improve their ICT skills. They will design leaflets and produce point of sale display ideas. In Resistant Materials they will study structures and develop their understanding of the design process. As well as the use of vacuum forming and other manufacturing processes they will be introduced to recycled textiles and man-made fibres; pupils will make fashion accessories such as ties using a variety of decorative techniques and processes. Pupils will make fashion accessories such as ties, using a variety of decorative techniques and processes. Pupils will research environmental issues incorporating the use of ICT and the use of 'PowerPoint' for presentations. They will also study healthy food options in Food Technology.

Assessment:

During each project, individual items of work are marked using the whole school marking system for attainment and effort grading. The complete project is then assessed and recorded against national curriculum levels.

Homework:

Homework is set to support the schemes of work. It may be of a research nature or a continuation of a stage in the design process. Some homework will be set to build and reinforce knowledge of skills developed during the lessons. Homework is assessed using the school marking scheme criteria.

Reading list/Useful Websites:

www.Tesco.co.uk

www.Cadbury.co.uk

www.bbc.co.uk

Design & Technology Years 10 + 11

Resistant Materials

Course outline:

Builds upon the skills and knowledge already acquired at Key Stage 3.

You will be allowed to work in a variety of materials including metal, wood and plastic, as well as ready-made components. Typical examples of projects could include toys and games, storage, lighting, jewellery, test equipment, devices and tools.

You will be given short focused tasks which will give you the experience and confidence to design and make larger and more complex projects. By Year 11 you should have the knowledge and confidence to research a project which is of particular interest to you. You will need to produce a design folio which is directly linked to your final project. Your design will show how your research, testing and developments have helped you to reach your chosen design. You will also gain insight into industrial processes and practices by using CAD/CAM to design and make your chosen project. You will research not only the manufacturing processes but also sales and marketing. This will be presented in the form of a folio.

Assessment:

The assessment of this course is common to all AQA examined D&T subjects. The final assessment comprises of a major project which is worth 60% and a written examination which is worth 40% of the final grade. Throughout the course pupil's work will be assessed using a combination of the school's A-E, 1-5 criteria and the exam boards GCSE criteria.

Homework:

The vast majority of homework set during the course will be directly related and contribute to the project that pupils are undertaking at that time. If pupils are to achieve their full potential, it is essential that they always enhance their projects by continuing to work on it in their own time.

Reading list/Useful Websites:

www.schoolsnet.com

www.bbc.uk/revision

Graphic Products

Course outline:

Builds upon the skills and knowledge already acquired at Key Stage 3.

The course is intended for pupils who have chosen to specialise in designing and making with graphic tools and techniques. Pupils will be given short focused tasks which will allow them to design and make in two and three dimensions. For example, some projects may involve them working on cardboard engineering, advertising and logos, product modelling, architectural models, graphical description of processes or products, flow charts and imaginative or speculative designing.

In the Autumn and Spring terms of Year 11, students will complete a major coursework task. A design folio has to be produced as well as a practical outcome to support the major coursework task. The contents of the folio need to reflect the design process showing things such as design brief, specification, research initial ideas, development, testing and evaluation.

Assessment:

The assessment of this course is common to all AQA examined D&T subjects. The final assessment comprises of a major project which is worth 60% and a written examination which is worth 40% of the final grade. Throughout the course pupils' work will be assessed using a combination of the school's A-E, 1-5 criteria and the exam boards GCSE criteria.

Homework:

The vast majority of homework set during the course will be directly related and contribute to the project that pupils are undertaking at that time. If pupils are to achieve their full potential, it is essential that they always enhance their projects by continuing to work on it in their own time.

Reading list/Useful Websites:

www.schoolsnet.com

www.bbc.uk/revision

Additional information:

Students will not be allowed to use Resistant Materials for their final project but must use card, Styrofoam, etc.

Food Technology

Course outline:

Food Technology aims to develop pupils' skills in designing and making a range of food products. All successful KS4 pupils choosing to do food will have the opportunity to study for the AQA Food Technology foundation or higher examination.

The course consists of a major coursework which is worth 60% and an exam worth 40%.

The aims of the course are to encourage pupils to demonstrate fully their design capabilities which require them to combine skills with knowledge and skills analysing and evaluating products. Much of their time is spent engaging in focused tasks to develop and demonstrate techniques.

Assessment:

The assessment of this course is common to all AQA examined D&T subjects. The final assessment comprises of a major project which is worth 60% and a written examination which is worth 40% of the final grade. Throughout the course pupil's work will be assessed using a combination of the school's A-E, 1-5 criteria and the exam boards GCSE criteria.

Homework:

The vast majority of homework set during the course will be directly related and contribute to the project that pupils are undertaking at that time. If pupils are to achieve their full potential, it is essential that they always enhance their projects by continuing to work on it in their own time.

Reading list/Useful Websites:

www.GOOGLE.com

www.NEAB Food Technology.com

www.sainsburys.co.uk

www.manufacture.com

Creative Textiles

Course outline:

The Creative Textiles programme at KS4 builds upon the skills and knowledge gained in KS3 through Textiles, Graphics and Art.

Students undertake demanding projects covering performance (costumes and set design), fashion, accessories, furnishings and decorative textiles.

Pupils develop their understanding of fabric and fibre construction, manufacturing processes, decorative techniques, applications for ICT for individual, batch and mass production. Talented and motivated students are given the opportunity to extend their practice through extra curricular and holiday workshops with the potential to achieve an additional GCSE in (Art) Textiles.

Assessment:

The assessment of this course is common to all AQA examined D&T subjects. The final assessment comprises of a major project which is worth 60% and a written examination which is worth 40% of the final grade. Throughout the course pupils' work will be assessed using a combination of the school's A-E, 1-5 criteria and the exam boards GCSE criteria.

Continuous assessment in work journals.

Homework:

The vast majority of homework set during the course will be directly related and contribute to the project that pupils are undertaking at that time. If pupils are to achieve their full potential, it is essential that they always enhance their projects by continuing to work on it in their own time. 1½ - 2 hours per week is expected to support the development of classwork and personal research.

Reading list/Useful Websites:

Students will make several exhibition and gallery visits during the course including trips to the Victoria & Albert Museum.

Crafts Council, Tate Gallery, and National Gallery websites.

Biographical texts/websites on Gustav Klimt, Hunderwasser, Van Gogh, Art Nouveau, Art Deco and contemporary textile designers. CRAFTS Council Magazine.

Art/Craft/Design related books.

Interiors magazines