

Design & Technology Faculty Homework Summaries

In **Year 7** students will receive 1 homework booklet in September. This will consist individual tasks based upon, research, designing and evaluating. Students will be expected to complete all tasks and present their work in the booklet. This Homework booklet should account for a number of hours work and should be completed independently.

In Year 8 students will receive 3 homework tasks within their 9/10-week carousel, in Food, Systems, Designing and Materials. These will be a style of flipped learning which will allow the students to come into their next lesson prepared for what they will cover. Examples may be Socrative quizzes for revision of theory tasks, analysing products, Health & Safety, research topics to aid progress in school. Other homework tasks will involve students developing the ability to independently study and prepare for small examinations.

Year 9 - students will carry out learning activities throughout the 9/10-week carousel, similar to Year 8. Students will be asked to complete a variety of homework tasks in the following D&T subjects: Food, Systems, Designing and Materials. These will build upon prior knowledge from Year 8 and allow students to progress at a quicker pace and reinforce existing knowledge whilst developing and understanding new concepts. The homework will be in a variety of format and media for all subject areas.

Students will undertake various written, research and design-based tasks, which will be submitted electronically or completed in booklets. These tasks are intended to further develop their theoretical understanding of what they have studied in school. This will include developing knowledge and understanding of a wide variety of areas including materials, systems and control, sustainability and an increasing range of manufacturing processes (including CAD/CAM). They will also further expand their understanding of how products are designed to meet the needs of users, in addition to improving their drawing skills.

Other homework tasks will involve students developing the ability to independently study and prepare for written tests and examinations. In addition to revising from their revision guide, exercise book and online resources, students will work from past papers so that they learn how to answer a variety of styles of question, including multiple-choice, short answer and longer answer questions. Not only will this improve their technical knowledge of the subject but it will also help students to improve exam technique.

Year 10 – GCSE Design Technology homework will focus around the 2 key elements of this course, which are a 2 hour written examination worth 50 % of the GCSE (students sit this at the end of Year 11) and the NEA (Non Exam Assessment), which also counts 50% towards the GCSE. The NEA, which starts towards the end of year 10 and continues into year 11, is an extended design and make task which is based on a context set by the exam board. In preparation for the NEA, some homework tasks in year 10 will involve students completing portfolio work. This will enable them to develop important researching skills and help them further improve their ability to present information in a wide variety of ways, including sketching, modelling and the use of an increasing range of programmes and apps. Significantly, these tasks will also help students manage their workload and meet important deadlines, something which is imperative when it comes to the NEA. Other homework tasks will involve students developing the ability to independently study and prepare for

written tests and examinations. In addition to revising from their revision guide, exercise book and online resources, students will work from past papers so that they learn how to answer a variety of styles of question, including multiple-choice, short answer and longer answer questions. Not only will this improve their technical knowledge of the subject but it will also help students to improve exam technique.

Year 11 – GCSE Design Technology homework will continue to focus around the 2 key elements of this course, which are a 2 hour written examination worth 50 % of the GCSE (students sit this at the end of Year 11) and the NEA (Non Exam Assessment), which also counts 50% towards the GCSE. The NEA, which students started in June of year 10, will continue throughout most of year 11. It is an extended design and make task based on the context set by the exam board.

In addition to making a prototype, which they will do solely in school, students must submit a mainly electronic portfolio, which contains all of their research, design, development and evaluation work. Whilst much of the portfolio will be completed in school there will also be opportunities for students to complete work at home. Other homework tasks will involve students developing the ability to independently study and prepare for the 2-hour written examination at the end of year 11. In addition to revising from their revision guide, exercise book and online resources, students will work from past papers so that they learn how to answer a variety of styles of question, including multiple-choice, short answer and longer answer questions. Not only will this improve their technical knowledge of the subject but it will also help students to improve exam technique.

Year 12 A Level Product Design – homework will be focused around the 2 key elements of this course; these are two written examinations sat at the end of year 13, which together count 50% towards the A-level grade, and an NEA (Non-Exam Assessment), which is an extended design and make project and also counts 50% towards the A-level grade. In preparation for the NEA, some homework tasks earlier in year 12 will involve students building on skills developed at GCSE with regard to producing portfolio work. Not only will they be expected to analyse design problems and present information in more detail, they will also be taught how to develop increasingly creative and complex design responses to a range of interesting problems and produce progressively more detailed design work using a wide range of media, generated both by hand and also using the wide range of software and apps available to them. Significantly, these tasks will also help students manage their workload and meet important deadlines, something which is imperative when it comes to the real NEA. Students will start this in June of year 12 and will be expected to work on it as part of their homework. A-level NEA work is a definite step-up from GCSE, therefore students will need to invest their own time on it to ensure that the required levels of detail and innovation are evident. Other homework tasks will involve students developing the ability to independently study and prepare for the block assessments throughout year 12, which ultimately serve to prepare them for the two written A-level examinations they will sit at the end of year 13.

The two papers are “Technical Principles” and “Designing and Making Principles”. These are academically rigorous exam papers, and it is important for students not to under-estimate the amount and detail of understanding that is required. Therefore, in addition to revising from resources such as text books, notes and online resources, students will work from past papers so that they learn how to answer a variety of styles of A-level question. Not only will this help improve their technical knowledge of the subject but it will also help students to improve exam technique by

gaining a better understanding of how to structure detailed answers to increasingly complex questions.

Year 13 A level Product Design – homework will continue to focus around the 2 key elements of this course; these are two written examinations sat at the end of year 13, which together count 50% towards the A-level grade, and an NEA (Non-Exam Assessment), which is an extended design and make project and also counts 50% towards the A-level grade. Students will have started their NEA, which will be based on a context of their own choice, in June of year 12 and will be expected to work on it as part of their homework as well as in school.

Because A level NEA work is a definite step-up from GCSE, students will need to invest significant amounts of their own time on it to ensure that the required levels of detail, analysis and innovation are evident. This will initially involve researching, designing, modelling, photographing and evaluating their ideas. They will use a range of techniques and media to present this work, generated both by hand and also using the wide range of software and apps available to them.

Further on into the NEA project students will also be expected to stay after school in order to access the specialist facilities required to complete a high-quality piece of practical work. Other homework tasks will involve students developing the ability to independently study and prepare for the two written A-level examinations they will sit at the end of year 13.

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Health & Social Care (Yr10-Yr13)

OCR Cambridge National Level 1 / 2 Health and Social Care

Year 10 & 11

Homework will be used to support the completion of all controlled assessment, however, due to strict guidelines only small amounts of this can actually be done at home. Students should expect to receive homework that involves completing research, revision or set tasks from lessons (which have been designed to support the required elements of the coursework requirements). In the majority of cases all homework tasks, and coursework deadline dates will be posted on Google Classroom, where students will be expected to complete and submit them.

Year 12 & 13

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GCSE Food Preparation and Nutrition

Year 10

Homework tasks will vary throughout Year 10, however, each week (give or take) students will be expected to provide the ingredients for their practical work. If any student has a problem in doing this, then we ask for contact to be made as soon as possible so that we can assist in whatever way we can.

In year 10 students will have their homework set and be expected to submit it through Google Classroom. Students will be given comprehension style homework tasks to reinforce the learning from the classroom. In addition to this, students will be asked to plan their own practical work; this includes deciding upon the most appropriate dish(es) for the given brief and the completion of a time plan.

Year 11

Homework in year 11 will mainly be used to support revision of all topics in preparation for the final exam. This will take the form of worksheets pertinent to the topic being revised.

NEA will be completed in class time during year 11 and whilst minimal work can be completed at home students should expect to carry out research and sourcing of recipes for both NEA1 and NEA2. Students will also be expected to carry out evaluations at home being able to draw upon the opinions and suggestions of family members.

