

Year 13 Design Technology

In Year 13, students continue with the NEA started in Year 12. They will be finalising designs, producing a prototype and evaluating. After the deadline, students will then re-visit the theory work started in Year 12 and continue theory sessions, preparing them for the two exams at the end of Year 13. It is expected that students complete work in their own time during the making process and complete extra revision. By the end of Year 13 the students will have completed all elements of the course, which are:

NEA: 40-hour portfolio and substantial design and make project (50%)

Paper 1: Technical Principles (30%)

Paper 2: Design and Make Principles (20%)

| Methods of deepening and securing knowledge: | |
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| Retrieval practice | Students to work on topics covered in Years 7-11 and revisit those started in Year 12. |
| Elaboration | Students will have to elaborate during the design and development process to ensure that they are explaining the stages of their work effectively. They will need to show a lot of analysis and explanation of design decisions in order to access the full range of marks. |
| Interleaving | Work will be broken up and managed – students will have to complete theory tasks running alongside their NEA to ensure that they are still recognising and are aware of the importance of the written papers. |

| | Autumn term 1 | Autumn term 2 | Spring term 1 | Spring term 2 | Summer term 1 | Summer term 2 | |
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| Topic(s) | Section D: Developing Design - Work through development section - Create models and discuss with client - Further investigations | Section D: Developing Design - Complete design work and begin making - Further development and investigation | Section E: Evaluating - Complete outstanding practical work - Complete evaluations - Modify for Commercial manufacture | Paper 1: Theory Re-cap - Revision and re-cap of Materials tools and processes work | Paper 2: Theory - Complete legislation work - Develop understanding of the work of designers - Re-cap, complete practice exam questions | | |
| Assessment | - On-going assessment | - On-going assessment | - Final submission assessment | - On-going exam practice assessment - PPE papers | - On-going exam practice assessment - PPE papers | | |

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| CEIAG (<i>Careers that are linked to that topic</i>) | Links with industry include: working in material areas, considering the needs of others in design, developing prototypes in the manufacturing industry | | | | |
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| Independent learning: |
| As in Year 12, Independent learning is a mixture of theory and coursework tasks. Students are required to use their own time to complete NEA analysis and investigating while practical work takes place in the lesson. Students must treat the lessons as 'contact time' and complete other tasks at home or in the Study Centre. |