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| Design and Technology GCSE |
| Exam Board | Edexcel / Pearson | Course Code | 1DT0 |
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| Outline of course | Students undertake a series of practical and theory tasks in order to prepare them for the written exam and their controlled assessment.The subject content is in three sections as follows: Years 9 and 10 will focus on developing practical skills using a wide range of media including: -Timber – Metal – Plastic – Electronics – Smart materialsStudents are expected to work independently using a wide range of tools and machines, including: -* Standard workshop hand and power tools
* Laser cutter
* 3D Printing

Students will develop a knowledge of design concepts including: -* Sustainability
* Iterative design
* New and emerging materials
* Orthographic and isometric drawing

Year 11 will focus on two outcomes:* Completion of a controlled assessment design and make task
* Consolidation of knowledge in preparation for the summative exam.
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| Method(s) of Assessment | One written exam which is two hours long and is worth 50% of the students’ final grade. The exam is in two sections:Section A – Core knowledge within Design Technology across a range of materialSection B – Timber based questionsStudents will also complete a controlled assessment worth 50% of their final grade. This is an extended project where students research, design, make and evaluate a project suitable for a given scenario.  |
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| Choose this subject if.. | If you have a passion for designing products and enjoy modelling, refining and creating products you have researched and designed. |
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| Possible careers/ future pathways | Fashion DesignerEngineeringProduct DesignerCAD/CAM |