



## Key Stage 3 Design Technology Curriculum

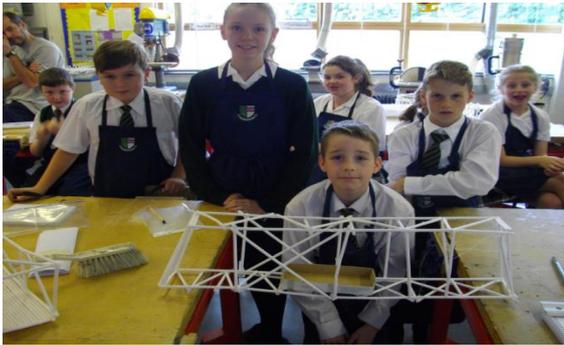


Today technology is dominating our everyday lives, advances in cars, phones, satellite communication, space travel, health care and many other areas are growing rapidly and are not set to slow down. Tomorrow's careers are going to be involved with technology that has not even been invented yet, so the demand for technologists and engineers is now regarded as a major problem here in the UK.

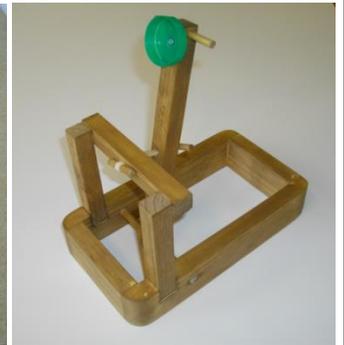
Design Technology at key stage 3 is intended to give students an insight into this world of technology and develop skills and understanding that may well lead to further study and a rewarding career.



Year 7 Musical organ project



Year 7 Bridge building and destruction testing



Year 8 Microprocessor programming and mechanisms

In year 7 students will build and test model bridges while learning about structures and forces. They will then design and build a musical organ where they will learn about tools, materials and electronics.

In year 8 students investigate mechanisms and will build and test a medieval catapult, they will also learn how to program a microprocessor and are set a challenge to program a robot car to navigate around a course.

In year 9 students will further develop their practical and electronic skills by making a phone/ipod type docking station that can be used to play music.

Beyond year 9 students can opt for a range of GCSE and BTEC subjects including Electronics, Engineering, Product Design and Graphic Products

In Design Technology students will spend 1 term per year in the department where they will develop a range of skills and knowledge related to areas such as structures, electronics, mechanisms and microprocessor control. They will be involved in practical work using a range of tools, equipment and materials and also theory work to underpin this knowledge.



Year 9 Docking stations