

TECHNOLOGY FACULTY

- OCR GRAPHIC PRODUCTS – Papers, boards and Polymers
- OCR RESISTANT MATERIALS – Timber and polymers

YEAR 10 CORE CONTENT

<i>Topic(s) covered</i>	<i>Resources available e.g. Website</i>
<p>Core and Technical Principles</p> <ul style="list-style-type: none"> • New and emerging technologies • Energy storage and generation • Modern and smart materials • Systems approach to designing • Mechanical devices • Materials and their working properties <p>Specialist Technical Principles</p> <ul style="list-style-type: none"> • Selection of materials and components • Forces and stresses • Ecological and social footprint • Scales of production • Sources and origins • Using and working with materials • Stock form, types and sizes • Specialist techniques • Surface treatment and finishes 	<p>GRAPHIC PRODUCTS – papers, boards and composites www.technologystudent.com www.designandtech.com www.aqa.org.uk LRC Graphics design section Computer software – Adobe Photoshop, Microsoft Publisher, Word, Excel, 2D Design</p> <p>RESISTANT MATERIALS – timbers and polymers Dorling Kindersley CD – How things work Programmes on school network – 2D design Focus packages – plastics, mechanisms, resistant materials. Knock down fittings, Google Sketch Up, Wood Joints, Crocodile technology, Pro-Desktop 8 Websites – dtonline.org automata.co.uk flyinpig.co.uk howstuffworks.com technology.org.uk electronics.co.uk technologysupplies.co.uk designandtech.com byteachers.org.uk designtechnology.org designincite.uk www.technologystudents.com</p>

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YEAR 11 CORE CONTENT

<i>Topic(s) covered</i>	<i>Resources available e.g. Website</i>
<p>During this year the students focus on producing their non-exam assessment project. This will require them to complete a design and make activity which reflects the following designing and making principles –</p> <ul style="list-style-type: none">• Investigating primary and secondary data• Environmental, social and economical challenges• Consider the work of past and present designers• Design strategies• Communication of design ideas.• Prototype development• Selection of materials and components• Tolerances• Material management• Tools and equipment• Techniques and processes <p>Towards the end of the course attention is focused on preparation for the written examination –</p> <ul style="list-style-type: none">• Written examination - Two hours• 100 marks• 50% of GCSE course	As Year 10