

Home Study and Independent Learning Parental Support Information

Course information			
Year: 9 Subject: Design and Technology			
Subject	Design and Technology	Subject leader contact information	Mr J Poote jpoote@cottesloe.bucks.sch.uk
Subject Content			
<p>Students in Year 9 are in a 'transition' into GCSE. They have units of 9 to 10 weeks, but won't rotate as they have done previously, they will explore different contextual challenges and design briefs that will result in a 'design' and 'make' prototype product. Within these units of work, our pupils are challenged to take risks, collaborate with others and use creative and critical thinking skills in a range of designs and make activities that inspire, motivate and enthuse pupils from all backgrounds and abilities.</p> <p>Examples of products that students will be making this year: Blister Packaging and prototyping Audio Amplifier prototype Gravity Die Casting Pewter Biomimicry inspired storage organiser and more</p>			
Additional Equipment Needed			
<ul style="list-style-type: none">● A device that can access the internet and be able to research, create and edit documents and presentations.● Have a range of coloured pencils for adding colour and texture to designs● A fine and broad black marker for adding line weight and impact to design work			
Assessment Details:			
<p>The year is split into 3 to 4 units/projects. Regular assessments are made throughout each unit to help us and students reflect on knowledge and skill and to identify areas of improvement.</p> <p><u>To be successful students will need to be able to:</u></p> <ul style="list-style-type: none">● <i>Write a design specification, identifying a user or group of users and their needs and wants (user-centred design)</i>● <i>Be able to demonstrate skills in 3D drawing and representation (isometric projection)</i>● <i>Know how to show creative thinking skills with mind mapping and idea generation</i>● <i>Create impact to design ideas using line weight, colour and texture</i>● <i>Demonstrate knowledge with selecting appropriate tools, materials and processes</i>● <i>Show good research skills when sourcing relevant information</i>● <i>Consider the user/consumer when designing/creating products</i>● <i>Be able to evaluate their own work and the work of others in a local or nation/international context</i>● <i>Use knowledge and skill from a range of other subjects eg Maths, Science, ICT and Art</i>● <i>Be able to plan out processes prior to applying practical skills</i>● <i>Demonstrate independence and resilience when carrying out practical activities</i>●			
What can I do to support my child at home?			
<ul style="list-style-type: none">● <i>Encourage reading of design and technology news (https://www.wired.com) and new innovations in design, technology and materials.</i>			

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- *Be curious about how things work, take broken products apart to learn more about how they work and what they may be made from (you could even cannibalise them to make something new).*
- *Watch appropriate 'design and make' or 'how stuff is made' videos on Youtube*
- *Provide access to the internet and a device to help with homework on Google Classroom*

Recommended resources for the course:

Websites:

<https://www.bbc.co.uk/bitesize/subjects/zfr9wmn>

<https://www.technologystudent.com>

<http://www.madehow.com>

<https://designmuseum.org>

<https://www.cat.org.uk>

<http://www.design-technology.info/home.htm>

Teaching Staff Contact Details

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Additional Information:

Part of the students' reflection on the work they have completed, might involve obtaining independent feedback from others as it is important for them to receive feedback on their work and to obtain other people's opinions on topics. This needs to be independent so the students might be asked to get this from family and friends.