

Product Design curriculum overview Yr 7

<u>Term</u>	<u>Topic and key questions</u>	<u>Assessment structure</u>	<u>How parents can help</u>
In Product Design there are 11 key topics we cover throughout the key stage 3 in preparation for the student's knowledge and understanding if they choose it for GCSE in KS4.			
<u>Rotation 1</u>	<p>Topic 1: Product Evolution & Topic 3: Design in Practice:</p> <p>Project title 1: The Telephone Project Title 2: Ernest Shackleton</p> <p>Topic 6: Global responsibility & Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials:</p> <p>Project title 3: Hate a Heart.</p>	<p>2 weeks</p> <p>Sketchbook will be marked and assessed.</p> <p>2 weeks</p> <p>The wooden 'heart' and how students have conducted themselves in the workshop.</p>	<p>http://www.bbc.co.uk/history/historic_figures/shackleton_ernest.shtml</p> <p>http://thegreatbritishbanjoblog.com/</p> <p>The above website links enable the students/parents to explore the topic of design and the influence of history with the process of creating a 'brand'.</p> <p>This clip looks at the impact of logging and the affects it has on within the communities, and the importance of sustainability.</p> <p>https://www.youtube.com/watch?v=GTEThw_3ISQ</p>
<u>Rotation 2</u>	<p>Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials:</p> <p>Project title 4: Tic Tac Toe.</p> <p>Topic 2: meeting consumer needs & Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials:</p> <p>Project title 5: Freeze or Fill.</p> <p>STEM Challenge. STEM stands for Science, Technology, Engineering and Mathematics.</p>	<p>6 weeks</p> <p>Sketchbook will be marked and assessed. Completed Tic Tac Toe box with counters.</p> <p>2 weeks</p> <p>Completed the former.</p> <p>2 weeks</p> <p>Sketchbook will be marked and assessed.</p>	<p>http://www.technologystudent.com/equip1/vacform1.htm</p> <p>In your household investigate objects that are mass produced which you use daily. For example, your butter dish, milk carton etc.</p> <p>http://www.womeninstem.co.uk/</p>

Product Design curriculum overview Yr 8

<u>Term</u>	<u>Topic and key questions</u>	<u>Assessment structure</u>	<u>How parents can help</u>
In Product Design there are 11 key topics we cover throughout the key stage 3 in preparation for the student's knowledge and understanding if they choose it for GCSE in KS4.			
<u>Rotation 1</u>	<p>Topic 3: Design in Practice & Topic 4: Packaging & marketing & Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials:</p> <p>Project title 1: William Morris Lino cut kit.</p> <p>Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials:</p> <p>Project title 2: Victor Papanek acrylic.</p> <p>Topic 5: Human Design & Topic 7: Production Manufacture & Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials: Product Manufacture:</p> <p>Project title 3: Scratch my back.</p>	<p>2 weeks Sketchbook will be marked and assessed. Lino cut kit complete.</p> <p>2 weeks Sketchbook will be marked and assessed. Completed acrylic piece.</p> <p>2 weeks Sketchbook will be marked and assessed. Completed wooden scratcher.</p>	<p>https://www.william-morris.co.uk/?act=ssocomplete</p> <p>A trip to the William Morris gallery in Walthamstow.</p> <p>A family day out to the V&A museum to see some of the Tatty Divine jewelry.</p> <p>http://papanek.org/</p> <p>http://www.tattydevine.com/jewellery</p>
<u>Rotation 2</u>	<p>Topic 8: ICT in Production & Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials: Manipulating & combining materials:</p> <p>Project title 4: Gum Ball machine.</p> <p>STEM Challenge. STEM stands for Science, Technology, Engineering and Mathematics.</p>	<p>6 weeks Sketchbook will be marked and assessed. Completed gumball machine.</p> <p>2 weeks Completed group task.</p>	<p>http://www.technologystudent.com/cams/camdex.htm</p> <p>https://www.stem.org.uk/elibrary/list/10609/mechanisms</p> <p>http://www.womeninstem.co.uk/</p>

Product Design curriculum overview Yr 9

<u>Term</u>	<u>Topic and key questions</u>	<u>Assessment structure</u>	<u>How parents can help</u>
<p>In Product Design there are 11 key topics we cover throughout the key stage 3 in preparation for the student's knowledge and understanding if they choose it for GCSE in KS4.</p>			
<p><u>Rotation 1</u></p>	<p>Topic 5: Human Design & Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials:</p> <p>Project title1: Ergonomics and chair modeling.</p> <p>Topic 6: Global responsibility & Topic 9: Manufacturing processes & Topic 10 Properties of materials & Topic 11: manipulating and combining materials:</p> <p>Project title2: Upcycled metal bar.</p>	<p>2 weeks Sketchbook planning will be marked.</p> <p>Working model and scaled proportion chair.</p> <p>3 weeks Sketchbook planning will be marked. Practical outcome.</p>	<p>Chair designs research online with the Design Museum or even better go on a family day out to the Design Museum.</p> <p>http://designmuseum.org/design</p> <p>Look online at projects that have been upcycled. Save your recycling to make projects from. Track how much as a family you recycle.</p> <p>http://www.upcyclethat.com/</p>
<p><u>Rotation 2</u></p>	<p>Topics 1-11: Project title 3: Mini GCSE project. Design & research Development of idea Modelling Manufacture Evaluations</p> <p>STEM Challenge. STEM stands for Science, Technology, Engineering and Mathematics.</p>	<p>6 weeks Sketchbook planning will be marked.</p> <p>Model.</p> <p>Finished product.</p> <p>3 weeks Completed group task.</p>	<p>Online website to help with planning and topics:</p> <p>http://gcseproductdesignrevision.weebly.com/</p> <p>http://www.womeninstem.co.uk/</p>