

Curriculum Overview – Year 7 Design and Technology

Unit Title	Learning	How can parents best support?
<p>Resistant Material Sweet Dispenser</p>	<ul style="list-style-type: none"> • How mechanical systems enable change in movement and force • Health and safety for specific tools (soldering iron, pillar drill, chisel, mallet) • Ergonomics • Technological Knowledge • Using a range of materials and components • Natural and manufactured timber (<i>sources classification and properties</i>) 	<p>Encourage your child to watch show such as “The Big Life Fix” BBC (available on iPlayer). Encourage conversations with your child about the process of making and the use of subject terminology.</p>
<p>Resistant Material Bughouse</p>	<ul style="list-style-type: none"> • Impact of design and technology on society • Health and safety for specialist tools and machinery • Select and use specialist tools (marking tools, cutting and filling tools). • Select and use specialist machinery (Belt sander, Pillar Drill). • Natural and manufactured timber (<i>sources classification and properties</i>) • Biomimicry • Evaluate products against specifications 	<p>Encourage your child to watch spring watch about animal’s habitats and protecting them. Ask them about how they can help improve the availability of shelter for animals their local area. Encourage your child to use BBC Bitesize design technology and technologystudent.com to research specific materials to support their home learning.</p>

<p>Graphics Festival Project</p>	<ul style="list-style-type: none"> • User needs • Design and making solutions • Research exploration • Different cultures • Specialist equipment (Craft knives, Printers) • Evaluate, getting views of intended users and testing. • Oral presentations based on research tasks • Understand the manufacture and use of paper products 	<p>Encourage your child to research into popular British festivals such as Reading, Leeds or even Reminisce festival in St Helens.</p> <p>Encourage your child to watch and discuss how paper products are made and produced</p>
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