

	Term 1 – 9 weeks		Term 3: April - July Content	Desired end of year outcomes
Year 9	<p>Crazy Car Project In this project, students are encouraged to start thinking like designers. Students are introduced to Styrofoam as a rapid prototyping material. From this, students are encouraged to sculpt a car of their choice from the material which goes through a range of processes to reach its final outcome. Students are introduced to heat processes and vacuum forming, which provides a polished finish on their products. Students are then encouraged to create custom graphics for their cars which is then laser engraved onto their designs. Students can also use vinyl to create custom graphics and logos to decorate their cars. Students will understand how rapid prototyping is used in a real-world context and they will see a range of videos showing designers using the process. Students will also learn techniques to create a higher quality product.</p>	<p>CAD/CAM Project Students are challenged to create a custom Room sign</p> <p>They will use an iterative process to make multiple design realisations of their ideas. This is designed to prepare students for KS4 qualifications (Cambridge National – Engineering Design, for those who pick DT as an option.</p> <p>They will then create this room sign using the 3D printer, to fully understand the CAD/CAM process.</p> <p>Carousel Design Technology and Food Technology operate on a carousel system. Students in year 9 are split between DT, FT, Textiles and iMedia.</p>	<p>Crazy Car Project Same as described in Term 1, but with the new year 9 group (Carousel).</p> <p>CAD/CAM project Same as described in Term 1, but with the new year 9 group (Carousel).</p>	<p>Students will understand key elements of designing and put them into practice. They will learn about the necessary research methods in the process of designing and making a product such as Analysing products and other secondary research methods.</p> <p>Students will be encouraged to harness their creativity and make good design decisions. Students' will be encouraged to think more about matching colours and the overall aesthetic of what they're making.</p> <p>Students will learn new heat processes (Vacuum Forming) and understand about rapid prototyping as part of the design and make process.</p> <p>Students will understand The CAD/CAM process.</p>
Assessment	Students are assessed on their folder work throughout the project and given regular feedback. Students are given a grading sheet at the end of the project which shows students what Glebe stage they have achieved with their learning outcomes. Students are also assessed on the quality of their final outcome.	Students are assessed on their folder work throughout the project and given regular feedback. Students are given a grading sheet at the end of the project which shows students what Glebe stage they have achieved with their learning outcomes. Students are also assessed on the quality of their final outcome.	Students are assessed on their folder work throughout the project and given regular feedback. Students are given a grading sheet at the end of the project which shows students what Glebe stage they have achieved with their learning outcomes. Students are also assessed on the quality of their final outcome.	<p>Key Contact Name & Email</p> <p>Will Hamblin Whamblin@glebe.bromley.sch.uk</p>