



Subject:	Product Design
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Head of Department:	Mr Young
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Year:	Seven
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Curriculum organisation
Students are taught in mixed form groups of 18-22 students for two lesson per week. Pupils work on a carousel system and rotate between Food, Product Design and Textiles

How will your daughter be learning?	
<p>Product Design Rotation consists of three design and make projects:</p> <p>Chocolate Bar Project</p> <ul style="list-style-type: none"> • Workshop Health and Safety – Introduction to workshop and machines • Analysis – Investigations and researching skills • Manufacturing a vacuum formed chocolate mould – Mould making, Workshop skills and batch production <p>Mobile Phone Holder</p> <ul style="list-style-type: none"> • Modelling and prototyping • Using CAD to design a phone holder • Setting up and using the laser cutter to manufacture an acrylic phone holder <p>USB Stick</p> <ul style="list-style-type: none"> • Design and development of a product • Precision measuring and working with tolerances • Use the laser cutter or 3D printer to manufacture a case for a USB stick. This is a working (8GB) product is then used by the students to save their school work on. 	<ul style="list-style-type: none"> • Whole class discussion • Pair work • Problem-solving tasks • Practical based activities in a workshop environment • Using Computer Aided Design (2D Design) • Using 3D printers and laser cutters to cut out materials and fabricate • Extended writing tasks and projects

Equipment needed for lessons	What can you do to support your daughter?
<ul style="list-style-type: none"> • Standard school stationery • Coloured pencils • Black fine liner pen • Calculator • A3 Folder purchased through school £1.50 	<ul style="list-style-type: none"> • Talk to her about the projects in Design and Technology • Tell her about how technology has changed your own lives • Discuss how products work and think about how they can be improved • Visit design related exhibitions at local galleries and museums • Watch “how it’s made” on television • Provide her with constructive advice regarding how she could improve her written and design work.

How will learning be assessed and progress measured?	Extension & Enrichment opportunities
<ul style="list-style-type: none"> • Baseline assessment in Autumn half-term 1 • Students will peer-mark some exercises • Practical outcomes that have been manufactured in school • Key homework tasks will be graded using the WKGS Grading Criteria 	<ul style="list-style-type: none"> • Lunch time Design and Technology Seasonal Club • Weekend enrichment opportunities offered through WKGS Gifted and Talented • The department offers taster sessions for parents. Dates and details are published in the parents weekly newsletter

If you have any questions about this Learning Overview, please contact the named Head of Department above.