



Subject: Design Theory	Head of Department: Mr Ford	Year: 8
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Curriculum organisation
Students are taught in mixed form groups of between 18-22 students for one double period per week. Students rotate on a carousel system between Food, Product, Textiles and Design Theory.

How will your daughter be learning?	
<p>Design and Technology (Knowledge)</p> <ul style="list-style-type: none"> • Properties and characteristics of materials and ingredients • Harwood's, softwoods and manufactured boards • Ferrous, non-ferrous and alloys • Thermoplastics, thermosetting plastics and plastic alternatives • Fabric, yarn and fibres (natural and synthetic) • Food groups: proteins, fats, carbohydrates, vitamins and minerals • Environmental/moral and ethical issues • Mathematics in Design and Technology <p>Design and Technology (Skills)</p> <ul style="list-style-type: none"> • Independent research skills • How to write a design specification • One point perspective drawing skills • Rendering skills 	<ul style="list-style-type: none"> • Whole class discussion • Paired/group work • Problem-solving tasks • Use of ICT • Independent researching • Extended writing tasks • Drawing tasks

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 materials and ingredients that we encountered daily. • Discuss where materials and ingredients come from and whether they are renewable or non-renewable. • Watch television programmes such as "How it's made", "Grand Designs", "Amazing Spaces", "Great British Bake Off" etc • Discuss every day mathematics such as calculating volumes, areas, measurements, angles etc.

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 • Workbooks will be marked and discussed individually with students (progress with purple pen) • 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.