

Year 9 Design & Technology Curriculum Plan (page 1 of 2)

Topics covered	Assessments
<p>METALWORK PROJECT</p> <ul style="list-style-type: none"> ▶ Design according to an array of different constraints. ▶ Make alternative design proposals regarding the choice of materials. ▶ Produce creative solutions which address the design criteria in expected and/or unexpected ways. ▶ Introduction to a range of new hand tools, machinery and brazing. ▶ Review on-going progress to meet criteria, invite feedback and incorporate it into work. <p>ERGONOMICS</p> <ul style="list-style-type: none"> ▶ Learn about what ergonomics and anthropometric data is, why and how it is used. ▶ Examine, describe and evaluate similar products to gain useful technical information. ▶ Use a range of information sources. ▶ Develop design criteria to satisfy the design problem. ▶ Identify constraints imposed by the task and/or resources and acknowledge them when formulating criteria. ▶ Learn about hand crafted and CAD/CAM modelling techniques/materials/equipment. ▶ Evaluate progress of ideas/work, and adapt ideas/plans if and when necessary. 	<p>Each project is assessed according to National Curriculum guidelines for Key Stage 3 and our faculty marking policy.</p> <p>National Curriculum targets are negotiated and written in the pupil planner. Pupils then assess their own work at the end of each project and set small goals which will help them reach their end of year target.</p> <p>The main emphasis is on practical skills that are marked according to:</p> <ul style="list-style-type: none"> - Preparation before the lesson (homework) - Safe and correct use of equipment - Designing to meet a demand/brief - Working health and safety - Final outcome with formative feedback

ENTERPRISE PROJECT

- ▶ Choose to adopt an appropriate role within a group (*e.g. leader, designer*).
- ▶ Work as part of a team, aiming towards a goal.
- ▶ Prioritise and reconcile decisions on materials, time and production.
- ▶ Review progress against plans at important stages of the task.
- ▶ Design and manufacture product to be sold in school and to the public.

Home enrichment opportunities

www.technologystudent.com – Great for homework, coursework and revision.

Google SketchUp – Free download of excellent CAD software, brilliant practice for future work.

Design Museum London – (Near London Bridge) Shad Thames, London, SE1 2YD

100% Design Exhibition - September – Earls Court, London

The London Design Festival –September – Several locations in London so check out the website.

University Exhibitions – Whether thinking about design degrees or not it is worth seeing the design work exhibited by design students at the end of their courses (usually May-June). For example 'Goldsmiths' & 'Kingston' both part of the 'University of London', Loughborough, Nottingham and many more.