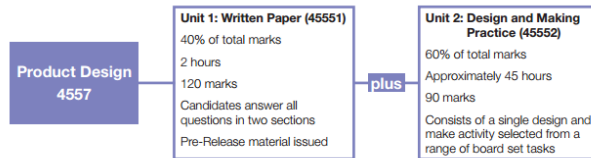


KS4 Design and Technology

At KS4 students have 1 Double (2 Hours) and 1 x Single (1 Hour) lessons a week and lessons are taught in specialist classrooms with a smaller number of students than KS3 so that staff are able to develop students individual creativity.

From 2015/16 Key Stage 4: GCSE Product Design – Examining Board - AQA

Product Design



Year 10

In Year 10, students who are studying at GCSE level will follow the exam specification and complete mini projects before embarking on their controlled assessment. An introduction will be given to materials and processes through a range of design and make projects covering Resistant Materials, Graphics and Textiles skills:

- Batch/Mass Production- Fundraising merchandise
- Logo/T shirt Design and Packaging
- Design Styles – 3D modeling, CAD and 3D Printing



Theory lessons will build on students' knowledge from KS3 and get them ready for the Unit 1 Paper. The topics covered are;

- Classification and Properties of Materials- Paper/Card, Timber, Plastics and Textiles
- Manipulating and Combining Materials
- New and Smart Materials
- Design and Market Influences- Evolution of Product Design, Product Development, Communication and representation of ideas
- Design Methodology
- Packaging and Product Marketing
- Design in the Human Context- Human Factors, Quality and Safety
- Consumer, Ethical, Environmental and Sustainability issues
- Product Manufacture- Industrial and Commercial Practice, Manufacturing systems
- Use of ICT



Year 11

In Year 11, students will complete their controlled assessment projects which then lead into the dedicated revision stage. Students choose their projects from a range of design briefs and need to have developed a high level of independence.

Example of possible tasks:

- Children's toy
- Jewellery
- Desk tidy
- Event promotion (bands, film, football events)
- Flat pack furniture
- Sustainable product
- Lighting design
- Board game

Useful Websites:

The following websites are particularly useful to students of Design and Technology students at KSA.

Students should use them regularly to help support and consolidate their learning in and outside of the classroom.

1. www.aqa.org.uk

The official website of AQA with access to past papers and mark schemes.

2. www.bbc/bitesize.co.uk

Written with students in mind.

3. <http://www.design-technology.info/>

4. <http://www.technologystudent.com/>

5. www.data.org.uk

6. www.dtonline.org