

GCSE DESIGN AND TECHNOLOGY EXAM BOARD – EDUQAS

GRADE 1 – 9

50% WRITTEN EXAM PAPER AT THE END OF YEAR 11 – 1 HOUR 45 MINUTES

50% CONTROLLED ASSESSMENT (SIMILAR TO COURSEWORK)
TO BE COMPLETED IN YEAR 11.

COURSE OUTLINE

Year	I 0	I 1
Autumn	Health and safety in the workshop Experiment with metal, plastics, wood and textiles. Timber theory Mini metal work project working to a real brief. Metal theory	NEA Coursework: 35 hours 50% of final grade They would be encouraged to use one or more materials of their choice for example wood, fabric, plastic or metal.
Spring	Mini woodwork project focusing on design and joining techniques Laser cutter project learning how to use 2D design software Polymer theory	Completion of NEA Exam paper revision.
Summer	NEA coursework released and started. The controlled assessment would be a portfolio following a design and make project of the pupils choice.	

COURSE OUTLINE

Year 10

Two lessons per week.
One hour per lesson.

In general one hour per week will be classroom based studying for the end of course exam or controlled assessment skills.

The second hour will be a practical session.

Pupils will investigate and have the opportunity to work with a variety of materials.
Designing and making products using timber, metal and plastics. Researching the properties and uses of these and smart materials.

Homework tasks will be set regularly to consolidate work from the lessons.

Practising any of these skills at home regularly is very beneficial.

COURSE OUTLINE

Year 11

Three lessons per week.
One hour per lesson.

In general two hours per week will be classroom based, researching, experimenting with materials and developing ideas before creating a final prototype. Some of our lessons will be IT based to prepare and present work for the controlled assessment.

Pupils will be expected to take more responsibility for their work, organising and purchasing of materials during year 11 to allow them to differentiate to suit their own preferences.

Homework tasks will be set regularly to consolidate work from the lessons.

GCSE DESIGN TECHNOLOGY PATHWAY

- <https://www.eduqas.co.uk/media/25tlhbw/gcse-design-and-technology-specification.pdf>
- This course would have the same structure of 50% controlled assessment and 50% written exam paper.
- The controlled assessment would be a portfolio following a design and make project of the pupils choice.
- They would be encouraged to use one or more materials of their choice for example wood, fabric, plastic or metal.
- The would work in the school workshop and have access to basic workshop machinery.

COURSE OVERVIEW

- All students would be taught the core knowledge topics which would included understanding a user needs, the design process, how to write and interpret design briefs and specifications.
- They would explore other designers and their work and consider how this could influence their own design choices.
- They would learn how to use CAD/CAM facilities to make design prototypes.
- They would learn about different materials and how they are constructed, can be worked with and different finishing techniques that could be applied to them.
- The first half of the course would be focused on learning core skills required for the final written exam and controlled assessment which would be completed in the later stages of the course in year 11.

ASSESSMENT

- 50% of the course would be a portfolio created by the student detailing their own journey responding to a design brief and producing a prototype product in response to that brief.
- The product could be made using wood ,fabric, metal or plastic.
- They would be expected to extended their knowledge and be more specialised in at least one of those materials.
- This would be an extensive piece of work to completed in school and at home.
- They would detail and record their own design journey.
- The remining 50% would be assessed via a written exam paper at the end of course.Assessing their knowledge and understanding of the design process and the different materials and their working properties.