

Curriculum Information for Parents

Key Stage 4 Design Technology

Learning Leader Contact Information		Phone: 01908 563468	Email: Michael.pearce@ewsacademy.org.uk
Examination Board	AQA	Specification Code	Design and Technology (8552)

Subject Content

Year 9

Are 3 mini projects to teach practical and NEA style folder work skills along with exam theory. Exam theory to match exam specification is covered 1 in every 5 lessons throughout year and below projects.

Term 1/2

Jewellery Box project: focused practical skills in work shop manufacturing small box with coomb joints, drawer, hinged lid, and laser engraved design. Also includes 2D Computer aided design software, Timber research and some 2d design work, evaluation.

Term 3/4

Design movement inspired free standing clock project: work includes research into materials, product analysis, questionnaire, mood boards, 3d isometric drawing by hand. 3D computer aided design work, 2d design work and laser cutting CAM, Vinyl sticker cutter CAM, practical metal work in aluminum. Workshop making, and evaluation

Term 5/6

Design and make Board game with packaging: working includes, product analysis, packaging nets, making boards, 2d Computer aided design of counters, 3d making of Nets for packaging, evaluation.

Year 10

Is a complete practice NEA project with feedback ahead of NEA starting June of yr10. Theory is taught at 1 lesson of every 5.

Design and make lamp project 4/5 lessons, theory for exam 1 lesson (designing principles)

Work to include Design movements, manufacturing methods, (wood joints, vacuum forming laser cutting). Product analysis materials research, client interviews and profiles, design specification, Initial designs (isometric drawing), 3d Computer aided design modelling, 2d design work, and laser cutting and vacuum forming depending on student's designs. Practical making lamps and evaluation

The themes are released for Non Exam assessment 1st June,

Term 6 Research and design section, (using work from lamp project as template).

Year 11

Terms 1 to 3 are working on Non exam Assessment task for a Feb half term deadline worth 50% of total GCSE grade.

Complete Design work and Practical work for Controlled assessment all work on own choice of projects

Production plan and photo diary on going homework during this time.

Some exam preparation for trial exams.

Testing and evaluation of their finished Non exam assessment practical work (test to spec, 3rd party testing and suggested improvements.

Complete all non-exam assessment work for marking February half term

Terms 4 and 5 are GCSE revision of all content covered from yr9 and yr10, and practice exam papers.

Additional Equipment Required:

Access to a computer for homework is useful but can use computers in school at breaks and lunch and after school. Software MS office (Publisher) and 2D design software (trial version can be downloaded) Fusion 360 CAD software free or student license.

Curriculum Information for Parents

Assessment Details

Mock exams sat end of yr9 and yr10 and in terms 2 and 4 of year 11.

Practice projects and real Non Exam Assessment work is assessed in line with the Non exam assessment criteria from AQA GCSE. 100 marks.

Identifying & investigating design possibilities 10
 Producing a design brief & specification 10
 Generating design ideas 20
 Developing design ideas 20
 Realising design ideas 20
 Analysing & evaluating 20

Please support helping them complete homework. Most tasks are research or finishing and improving work started in class.

All the practice projects during yr9 and yr10 provide them with opportunities for formative feedback on their work so all work should be their best work to make this useful, as during NEA (worth 50% of GCSE) they will not get formative feedback on work but have access to all practice projects to support them.

NEA projects also require access to a real life client to design for, so supporting them visit clients is also very useful.

Recommended resources for the course:

Very useful websites

<https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552>

Good website for NEA research and exam prep.

www.technologystudent.com

Revision guide:

https://www.amazon.co.uk/Grade-Design-Technology-Revision-Guide/dp/1782947523/ref=sr_1_1?ie=UTF8&qid=1537537918&sr=8-1&keywords=gcse+design+technology

Teaching Staff Contact Details

Name	Role	Email	Tel
Mike Pearce	Learning leader for DT and Food and DT teacher south	Michael.pearce@ewsacademy.org.uk	

Additional Information:

After school DT work on Mondays and Wednesday for support with practical or folder NEA work, optional to all and mandatory for any falling behind with work.

Thanks for your support in advance for the parent contributions that allow the students to make such high quality practical outcomes that support their learning

Curriculum Information for Parents