



SWANMORE

— GCSE Engineering —

How is my child assessed?

40%
Course
work

60%
Exam

- Pupils will complete one piece of coursework (NEA) and one examination.
- The NEA is released in June of year 10 and pupils will start their projects at this point.
- Pupils have one opportunity to complete coursework tasks, as the task content changes each year.

Exam and Skills:

Pupils will be taught through the delivery of modules (1/2 term to 1 term in length) that will focus on a particular area or skillset. At the core of the module will be a practical element, whereby the pupils will manufacture a functional product. Around this practical element, the pupils will learn the theoretical principles behind the product they are making, as well as looking at other linked industrial processes.

We encourage pupils to start making revision resources from the start of the course for each mock examination, with time in the lead up to the exam spent revisiting previously learnt topics and developing revision techniques. As the pupils progress through the course and the content builds, this will give pupils an opportunity to interleave their revision with their new learning and build their memory recall of key pieces of information.

Pupils sit one exam in GCSE Engineering. The paper is 2 hours long and makes up 120 marks of the final grade that pupils are awarded in the summer of year 11. In the examination pupils will be asked questions about any of the theoretic principles and process that they have covered over the two years. Approximately 25% of the paper will be applied mathematical questions.

Course Work:

The coursework (NEA Non-Examined Assessment) is a single piece of project work that is set by the examination board. The theme that is set, is different each year, with previous themes including security items, sports training devices and children's toys.

This work starts in June of Year 10, when the examination board release the theme for the year. The pupils will then set about researching the problem that they have been set, before designing, developing, manufacturing a prototype and evaluating it's success. The product that pupils make must include a mechanical and an electronic element, as well as being a functional product that can be tested.

The NEA then lasts until April of year 11, with time taken out for mock exam preparation during the assessment periods. Throughout this time pupils are guided through the process, but must work independently to product their solution. There is exemplar work, a PowerPoint guide, along with teacher support to ensure that they achieve in this area. There are also drop in workshop sessions after college, for those pupils who need to access further support or make use of the workshop.



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Revision Resources

All pupils have access to Google Classroom. This is where they can get access to useful revision resources, like a 'Revision Question a Day Calendar' in the run up to mocks, as well as guided tasks and resources from previous lessons. There is also a revision PowerPoint that gives pupils an overview of each topic they need to know for the examination.

Pupils will be encouraged to start making revision resources from the start of the course for each module of work that they cover. This will allow them to interleave their revision with their new learning and build their memory recall of key pieces of information.

Pupils will be supported to make revision resources including mind maps, knowledge organisers, flashcards and quizzes, as well as guided to writing exam question for them to practice and self-asses in order to improve their responses.

Current specification text books and revision guides:

- My Revision Notes: AQA GCSE (9-1) Engineering – ISBN 978-1510425729 – This is the revision guide that is available from the college or online. It is approved by the examination board.
- AQA GCSE (9-1) Engineering – ISBN 978-1510425712 – This is an examination board approved text book that goes into more detail in each topic. This is available online.

Other useful resources

Whilst there is no specific revision website for GCSE Engineering, the following are useful websites, when used with the Personalised Learning Checklists.

- www.technologystudent.com
- BBC BiteSize – AQA Design Technology <https://www.bbc.co.uk/bitesize/examspecs/zby2bdm>
- YouTube Channel - [The Engineering Mindset – YouTube](#) – lots of useful electronics information

YouTube Channels for those with enquiring minds

- YouTube Channel - [Veritasium – YouTube](#) – good for looking at topics in deeper detail, but also a lot of cool science stuff too!
- YouTube Channel [SmarterEveryDay – YouTube](#) – good for real world Engineering and Physics applications

Exam Board



Exam Board: AQA
GCSE Title: Engineering

The exam board website, contains further information about the course, as well as past papers and past NEA topics.

Scan the QR code to view the examination board website.