

# DESIGN AND TECHNOLOGY & ENGINEERING

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# About Hodder Education



Hodder Education has been working with schools, colleges, expert authors and awarding organisations for many years to create quality print and digital resources and deliver exceptional teacher training and revision events.

## We provide:

- Market-leading, award-winning resources for over 30 subjects, covering teaching, learning, CPD and revision
- Support for GCSE and A-level students with 16 Review Magazines across different subjects
- Innovative digital products, including eTextbooks, Teaching & Learning and Exam Question Practice resources, that work flexibly together
- Coverage for KS3, GCSE, IGCSE, IB and A-level and numerous vocational qualifications, supporting teaching and learning throughout the world



This course guide features all of our Design & Technology CPD training and student revision events that will equip everyone with the skills required to progress and achieve success.

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# How we can help

We know that every classroom need is different, which is why we currently offer a range of opportunities from face-to-face events and webinars to bespoke in-school training.

## Face-to-face: Regional events

From Teacher Workshops to Student Conferences, our regional events cover the whole spectrum of teaching and learning, with ideas and resources that you and your students can use immediately.

## Online: Teacher and student webinars

These interactive sessions are a cost-effective way of training, offering classroom-ready resources and 6 months access to the webinar recording, meaning you can view them on-demand as many times as you need.

## IN-SCHOOL Bespoke training

Is there a CPD workshop that you wish to attend but find it a struggle to leave the classroom? Or is there a particular area you are looking for support with? Why not 'host' an event or a more tailored workshop at your school on a day that suits you and your colleagues.

None of the events in this brochure are official AQA events and therefore the views and messages shared are not representative of AQA. For more information about the specification and official events, please visit [www.aqa.org.uk](http://www.aqa.org.uk). If printed or digital copies of AQA material are required for any events, you will receive confirmation of what you need to bring prior to the event

## Preparing students for the first AQA GCSE (9-1) Engineering exam

Course leader: Paul Anderson

- Manchester: Thursday, 28 February 2019
- Central London: Thursday, 7 March 2019
- Workshop fee: £249 + VAT
- Booking references: DT280219 / DT070319

**Receive first-class support through the new AQA GCSE (9-1) Engineering exam; discuss the new exam format, the increased numeracy requirement and how best to develop your students' subject knowledge, building their confidence as they head towards the exams.**

- Gain a clear understanding of how to address the significant content changes compared to the old specification – in particular the numeracy requirements
- Build your own confidence in planning for the revision season by focusing on the new exam format and how to make sure your students get the top marks
- Hear expert guidance and strategies from author, former examiner and experienced teacher, Paul Anderson

**Attend this course and receive a free copy of *My Revision Notes: AQA GCSE (9-1) Engineering* – worth £9.99**

10.00am	Registration and coffee
10.15am	<b>Understanding the new requirements</b> <ul style="list-style-type: none"> <li>• Review of the new specification and how the content is different from the old one</li> <li>• Outline of the new exam format</li> <li>• How to achieve success in addressing the new numeracy requirements</li> </ul>
11.15am	Morning coffee
11.30am	<b>Achieving success in the exam</b> <ul style="list-style-type: none"> <li>• Tackling the reasons why students don't succeed in exams</li> <li>• Understanding what the examiners are looking for</li> <li>• Developing exam skills with students</li> </ul>
12.30pm	Lunch
1.30pm	<b>Essential subject knowledge</b> <ul style="list-style-type: none"> <li>• Effective strategies to successfully deliver key subject knowledge</li> <li>• Understanding systems, engineering drawings and conventions</li> <li>• Effective approaches to revision</li> </ul>
2.30pm	Afternoon tea
2.45pm	<b>Planning for success</b> <ul style="list-style-type: none"> <li>• Preparing for success in year 10</li> <li>• Using the NEA to support success in the exam</li> <li>• Individual action planning – “what will I do differently when I get back to school?”</li> </ul>
3.45pm	Review and reflect
4.00pm	Course ends

## Delivering the AQA NEAs through GCSE Textile-Based Materials and A-level Fashion & Textiles

Course leader: Denise Davies

- Manchester: Tuesday, 5 March 2019
- Central London: Tuesday, 12 March 2019
- Workshop fee: £249 + VAT
- Booking references: DT050319 / DT120319

**Address the 2018 AQA NEA problem areas, focus on the areas where marks were lost and explore strategies and techniques to use in your classroom to inspire your GCSE and/or A-level textiles students to think like a real designer.**

- Discover ways to deliver the NEA through GCSE Textile-Based Materials and A-level Fashion & Textiles so that you can ensure your students' ideas flourish and access the top grades
- Focus on the assessment criteria, context investigation and iterative approach that were problem areas in 2018

**Attend this workshop and receive an order form to claim a free copy of *AQA GCSE (9-1) Textile-Based Materials or AQA A-level Fashion & Textiles student guide* – worth up to £32.99**

**SUITABLE FOR GCSE & A-LEVEL TEACHERS**

10.00am	Registration and coffee
10.15am	<b>Investigating contexts</b> <ul style="list-style-type: none"> <li>• Looking at the GCSE and AS contexts</li> <li>• Choosing contexts at A-level</li> <li>• Useful investigative methods</li> <li>• Identifying design opportunities when investigating contexts</li> </ul>
11.15am	Morning coffee
11.30am	<b>Development of textile prototypes</b> <ul style="list-style-type: none"> <li>• Consider the different activities that could be involved in the development of a prototype</li> <li>• Producing work that is different to their peers</li> <li>• Presentation techniques that show creativity and flair</li> </ul>
12.30pm	Lunch
1.30pm	<b>Embellishment and construction techniques</b> <ul style="list-style-type: none"> <li>• Ways of colouring fabrics including printing methods</li> <li>• Embellishment techniques</li> <li>• Useful construction techniques</li> </ul>
2.30pm	Afternoon tea
2.45pm	<b>Testing and modifying textile products</b> <ul style="list-style-type: none"> <li>• Testing throughout the project</li> <li>• Modelling techniques</li> <li>• User trials</li> <li>• Modifications to further develop and improve prototypes</li> </ul>
3.45pm	Review and reflect
4.00pm	Course ends

## TEACHER WORKSHOP

## Preparing students for the first AQA GCSE (9-1) Design & Technology exams

Course leader: Daniel Markham

- Manchester: Tuesday, 19 March 2019
- Central London: Thursday, 28 March 2019
- Workshop fee: £249 + VAT
- Booking references: DTA190319 / DTA280319

**Discover how to maximise students' performance in the first round of AQA GCSE (9-1) Design & Technology exams and explore creative resources and teaching techniques to help students succeed.**

- Review your understanding of the exam requirements by exploring command words and writing frames
- Discover ways to improve students' skills required for exam success – Maths, Science and exam techniques
- Your opportunity to share good practice and develop ways to teach theory elements in a practical way

**Attend this workshop and receive a free copy of *My Revision Notes: AQA GCSE (9-1) Design and Technology: All Material Categories and Systems* – worth £10.99**

## AQA

## GCSE

10.00am	Registration and coffee
10.15am	<b>Core technical principles</b> <ul style="list-style-type: none"> <li>• Revision skills to cover the breadth of knowledge</li> <li>• Making core interesting</li> <li>• Creating resources and ways to support</li> </ul>
11.15am	Morning coffee
11.30am	<b>Specialist technical principles</b> <ul style="list-style-type: none"> <li>• Practical approach to revision</li> <li>• Single or multi material approaches</li> <li>• Depth and understanding of material areas</li> </ul>
12.30pm	Lunch
1.30pm	<b>Designing and making principles</b> <ul style="list-style-type: none"> <li>• Using the NEA to your advantage</li> <li>• How are designing and making skills tested</li> <li>• Practising scenarios</li> </ul>
2.30pm	Afternoon tea
2.45pm	<b>Maths, Science and exam technique</b> <ul style="list-style-type: none"> <li>• Teaching Maths and Science skills</li> <li>• Command words and writing frames</li> <li>• How to approach the exam (technique)</li> </ul>
3.45pm	Review and reflect
4.00pm	Course ends

## STUDENT WEBINAR SERIES

## AQA GCSE (9-1) Design & Technology revision series

Webinar leader: Daniel Markham

- Series fee: £385 + VAT per classroom. Buy 4+ webinars and save 30% – simply use discount code **WQ0004239**

**Ensure that your students are ready for success in the first round of AQA GCSE (9-1) Design & Technology exams by registering for this series of interactive webinars. Expert Daniel Markham will guide your students through the different sections of the exam, boost their knowledge and understanding of the core and specialist technical principles and provide techniques, tools and tips that will help improve their Maths and Science skills.**

## AQA

## GCSE

- Extend your students' core technical knowledge and understanding (Section A)
- Reinforce classroom learning and boost your students' understanding of the questions surrounding the specialist technical principles (Section B)
- Ensure your students are ready to tackle the designing and making principles (Section C) which covers 50% of Paper 1 and is assessed in the NEA
- Don't let your students miss out on the easy marks, the final webinar in the series is specifically designed to build students' confidence and strengthen their Maths and Science skills
- Pick and choose which webinars are best suited for your students; all registered schools will receive 6-month access to rewatch the webinars again during class or revision time

## Core technical principles (Section A)

- Online: Tuesday, 7 May 2019
- Individual webinar fee: £110 + VAT per classroom
- Booking reference: DTA070519

3.30pm	Introductions and sound checks
3.35pm	<b>Core technical principles</b> <ul style="list-style-type: none"> <li>• New and emerging technologies</li> <li>• Energy generation and storage</li> <li>• Developments in new materials</li> </ul>
4.15pm	Activity break – practice questions
4.25pm	<b>Core technical principles</b> <ul style="list-style-type: none"> <li>• Systems approach to designing</li> <li>• Mechanical devices</li> <li>• Materials and their working properties</li> <li>• Practice questions</li> </ul>
5.00pm	Webinar ends

## Timber, metal-based materials and polymers (Section B)

- Online: Wednesday, 8 May 2019
- Individual webinar fee: £110 + VAT per classroom
- Booking reference: DTA080519

3.30pm	Introductions and sound checks
3.35pm	<b>Specialist technical principles</b> <ul style="list-style-type: none"> <li>• Sources and origins</li> <li>• Selecting materials / components</li> <li>• Stock forms, types and sizes</li> <li>• Techniques and processes</li> <li>• Treatments and finishes</li> </ul>
4.15pm	Activity break – practice questions
4.25pm	<b>Specialist technical principles</b> <ul style="list-style-type: none"> <li>• Scales of production</li> <li>• Ecological and social footprint</li> <li>• Forces and stresses</li> <li>• Question types – technique</li> </ul>
5.00pm	Webinar ends

## Paper, boards and textiles-based materials (Section B)

- Online: Thursday, 9 May 2019
- Individual webinar fee: £110 + VAT per classroom
- Booking reference: DTA090519

3.30pm	Introductions and sound checks
3.35pm	<b>Specialist technical principles</b> <ul style="list-style-type: none"> <li>• Sources and origins</li> <li>• Selecting materials / components</li> <li>• Stock forms, types and sizes</li> <li>• Techniques and processes</li> <li>• Treatments and finishes</li> </ul>
4.15pm	Activity break – practice questions
4.25pm	<b>Specialist technical principles</b> <ul style="list-style-type: none"> <li>• Scales of production</li> <li>• Ecological and social footprint</li> <li>• Forces and stresses</li> <li>• Question types – technique</li> </ul>
5.00pm	Webinar ends

## Designing and making principles (Section C)

- Online: Tuesday, 14 May 2019
- Individual webinar fee: £110 + VAT per classroom
- Booking reference: DTA140519

3.30pm	Introductions and sound checks
3.35pm	<b>Designing principles</b> <ul style="list-style-type: none"> <li>• Investigating using data</li> <li>• Environmental, economic and social challenge</li> <li>• The work of others</li> <li>• Design strategies and communication</li> </ul>
4.15pm	Activity break – practice questions
4.25pm	<b>Making principles</b> <ul style="list-style-type: none"> <li>• Prototype development</li> <li>• Selection of materials / components including material management</li> <li>• Tolerances</li> <li>• Specialist tools, equipment and processes</li> </ul>
5.00pm	Webinar ends

## Essential Maths, Science and exam skills

- Online: Tuesday, 21 May 2019
- Individual webinar fee: £110 + VAT per classroom
- Booking reference: DTA210519

3.30pm	Introductions and sound checks
3.35pm	<b>Maths &amp; Science skills</b> <ul style="list-style-type: none"> <li>• What do we already know?</li> <li>• What does a D&amp;T Maths question involve?</li> <li>• What does a D&amp;T Science question involve?</li> <li>• How to structure your answers</li> </ul>
4.15pm	Activity break – practice questions
4.25pm	<b>Exam technique</b> <ul style="list-style-type: none"> <li>• Different question types</li> <li>• Planning responses and time keeping</li> <li>• What is the question asking? Use of command words</li> <li>• Extended responses – how to structure your response</li> </ul>
5.00pm	Webinar ends

## TEACHER WORKSHOP

## AQA GCSE (9-1) Design & Technology: Reviewing the lessons from the first exam

Course leader: Daniel Markham

- Manchester: Monday, 23 September 2019
- Central London: Friday, 18 October 2019
- Workshop fee: £249 + VAT
- Booking references: DTA230919 / DTA181019

### Analyse performance in the first AQA GCSE (9-1) Design & Technology exam, learning how to improve your delivery and raise student attainment.

Examining the areas where students struggled, this one-day workshop takes you through each section, providing invaluable feedback that is easy to implement.

- Review students' performance and identify the strengths, weaknesses and areas that you should focus on in 2019/20
- Receive ideas and guidance on how to boost exam technique and prepare students for the extended response questions

**Attend this workshop and receive a free copy of My Revision Notes: AQA GCSE (9-1) Design and Technology: All Material Categories and Systems – worth £10.99**

## AQA

## GCSE

10.00am	Registration and coffee
10.15am	<b>General overview</b> <ul style="list-style-type: none"> <li>• Breakdown of exam results</li> <li>• National / regional trends - why?</li> <li>• Grade boundary analysis – comparison to legacy specifications</li> </ul>
11.15am	Morning coffee
11.30am	<b>Section A – core technical principles</b> <ul style="list-style-type: none"> <li>• Particular areas of concern – where students struggled</li> <li>• Multiple choice - challenges</li> <li>• Improving students' technique</li> </ul>
12.30pm	Lunch
1.30pm	<b>Section B &amp; C – specialist and designing and making principles</b> <ul style="list-style-type: none"> <li>• Particular areas of concern – where students struggled</li> <li>• Extended responses – how students responded</li> <li>• Improving students' technique</li> </ul>
2.30pm	Afternoon tea
2.45pm	<b>Moving forward – preparing students</b> <ul style="list-style-type: none"> <li>• Mock examinations – preparing students for the new rigour</li> <li>• Targeting students and revision techniques</li> <li>• Exam technique – how to prepare students</li> </ul>
3.45pm	Review and reflect
4.00pm	Course ends

## TEACHER WORKSHOP

## AQA GCSE (9-1) Design & Technology: Feedback on the NEA

Course leader: Daniel Markham

- Manchester: Monday, 28 October 2019
- Central London: Friday, 8 November 2019
- Workshop fee: £249 + VAT
- Booking references: DTA281019 / DTA081119

### Examine performance in the 2019 AQA GCSE (9-1) Design and Technology NEA and pick up a wealth of practical pointers to help your 2020 candidates conduct a successful investigation into the contextual challenge.

- Gain a clear understanding of the key issues from the AQA GCSE (9-1) NEA component and analyse the whole process, from inception to writing up the investigation
- Review performance in the NEA in terms of expectations, demand and trends
- Identify strengths and weaknesses in the 2019 submissions, considering how you can use this insight to support your next cohort

**Attend this workshop and receive a free copy of My Revision Notes: AQA GCSE (9-1) Design and Technology: All Material Categories and Systems – worth £10.99**

## AQA

## GCSE

10.00am	Registration and coffee
10.15am	<b>General overview</b> <ul style="list-style-type: none"> <li>• Breakdown of NEA results</li> <li>• National / regional trends - why?</li> <li>• Grade boundary analysis – comparison to legacy specifications</li> </ul>
11.15am	Morning coffee
11.30am	<b>AO1: Investigation</b> <ul style="list-style-type: none"> <li>• Particular areas of concern – where students struggled</li> <li>• Good practice – how and why?</li> <li>• Brief and specification – making the purposeful</li> </ul>
12.30pm	Lunch
1.30pm	<b>AO2: Designing &amp; making</b> <ul style="list-style-type: none"> <li>• Particular areas of concern – where students struggled</li> <li>• The iterative approach – did it work?</li> <li>• Good practice – how and why?</li> </ul>
2.30pm	Afternoon tea
2.45pm	<b>AO3: Analysis and evaluating</b> <ul style="list-style-type: none"> <li>• Particular areas of concern – where students struggled</li> <li>• Good practice – how and why?</li> <li>• Moving forward – how to prepare students</li> </ul>
3.45pm	Review and reflect
4.00pm	Course ends

## AQA A-level Product Design: Preparing students for the first exam

Course leader: Gordon Barratt

- Central London: Tuesday, 5 March 2019
- Manchester: Tuesday, 12 March 2019
- Workshop fee: £249 + VAT
- Booking references: DTA050319 / DTAA120319

**Discover how to shape your lessons and revision plans to make sure your students are ready and confident to tackle the first AQA A-level Product Design exam.**

- Hear expert guidance on how to get your students ready for success in the first round of exams
- Discover how current technologies (CAD / CAM) can be dovetailed into the new specification
- Focus on the issues from last year's AS exams and the typical issues with student responses

**Attend this workshop and receive a free copy of *My Revision Notes: AQA A Level Design and Technology: Product Design* – worth £16.99**

10.00am	Registration and coffee
10.15am	<b>AS/A-level Product Design: The new specification</b> <ul style="list-style-type: none"> <li>• The new mark scheme</li> <li>• The method of assessment and moderation process</li> </ul>
11.15am	Morning coffee
11.30am	<b>What's changed and what has remained the same?</b> <ul style="list-style-type: none"> <li>• NEA contexts – interactive exercise</li> <li>• How to realise ideas related to the NEA</li> <li>• Using exemplar AS material – marking exercise</li> <li>• Good and bad practice</li> </ul>
12.30pm	Lunch
1.30pm	<b>Exemplar material and marking exercises</b> <ul style="list-style-type: none"> <li>• Utilising the new mark scheme – interactive exercise</li> </ul>
2.30pm	Afternoon tea
2.45pm	<b>Good and bad practice</b>
3.45pm	Review and reflect
4.00pm	Course ends

## AQA A-level Fashion and Textiles: Preparing students for the first exams

Course leader: Julie Drake

- Manchester: Wednesday, 27 March 2019
- Central London: Thursday, 28 March 2019
- Workshop fee: £249 + VAT
- Booking references: DT270319 / DT280319

**Hear expert advice on how to prepare your students for the first round of AQA A-level Fashion and Textiles exams, plus return to your school with a clear understanding of the precise requirements for each type of question across the papers.**

- Work with an experienced teacher and highly regarded trainer who will provide you with a range of practical tips, techniques and resources that will help you confidently prepare students for the exams
- Focus on ways to guide and prepare your students so they can respond to the different question types including the skills required for the Maths content

**Attend this workshop and receive a free copy of *AQA AS/A-Level Design and Technology: Fashion and Textiles* – worth £32.99**

10.00am	Registration and coffee
10.15am	<b>AS/A-level Fashion and Textiles overview</b> <ul style="list-style-type: none"> <li>• What's new and what's stayed the same?</li> <li>• Technical principles and designing and making principles – overview of course content</li> <li>• Managing and planning for the written papers</li> <li>• Co-teaching AS and A-level</li> </ul>
11.15am	Morning coffee
11.30am	<b>Mathematics and Science skills</b> <ul style="list-style-type: none"> <li>• Making Maths real in Fashion and Textiles</li> <li>• Analysing the question types and studying sample answers</li> <li>• Resources available to display and use with students</li> </ul>
12.30pm	Lunch
1.30pm	<b>Tackling the exams: AS Paper 1 and A-level Paper 1</b> <ul style="list-style-type: none"> <li>• Analysing the question types</li> <li>• Studying sample answers in relation to the mark schemes</li> </ul>
2.30pm	Afternoon tea
2.45pm	<b>Tackling the exams: A-level Paper 2</b> <ul style="list-style-type: none"> <li>• Analysing the question types</li> <li>• Studying sample answers in relation to the mark schemes</li> </ul> <b>Teaching exam technique</b> <ul style="list-style-type: none"> <li>• Command words – what are they asking?</li> <li>• Hints, tips and revision resources for students</li> </ul>
3.45pm	Review and reflect
4.00pm	Course ends

## BESPOKE IN-SCHOOL TRAINING

TAKE PART IN OUTSTANDING CPD WITHOUT LEAVING YOUR CENTRE

Is there a CPD workshop that you wish to attend but find it a struggle to leave the classroom? Or is there a particular area you are looking for support with? Why not 'host' an event or a more tailored workshop at your school on a day that suits you and your colleagues.

CUSTOMISED CONTENT ∞ PROFESSIONAL GUIDANCE ∞ VALUE FOR MONEY

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∞ You can invite local schools along to help build new partnerships, swap ideas and share the costs with them

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## BOOKING FORM

Fill in the booking form below and return it via post or fax:

 Hodder Education, Blenheim Court, George Street, Banbury, OX16 5BH  01295 222745

Booking reference:

Delegate name(s):

Job title(s):

Email address\*:

Establishment name:

Address:

Postcode:

Telephone:

Date:

Purchase order number:

Please specify any special dietary requirements (e.g. vegetarian, vegan, gluten free):

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