

AS and A level Mathematics Resources

Free Support Materials for schools and colleges

We have gathered all our free resources for AS and A level Mathematics in one place for our AS and A level Mathematics qualifications.

All the resources listed here are available from the AS and A level Mathematics Qualifications web page, Mathematics Emporium and our Teaching & Learning Resources web page.

In order to access these materials, please ensure you complete the following steps before clicking on any of the support in this document.

Step 1

Login to **Edexcel Online** and the **Mathematics Emporium** by clicking the links below. If you don't have login details for either of these, **find out more now.**

Step 2

Navigate to the type of resource you are looking for.

Step 3

Click on the boxes to download your free AS and A level Mathematics Resources.

What type of resources are you looking for?



Specifications and Sample Assessment Materials

[AS Mathematics Specification](#) 

[A level Mathematics Specification](#) 

[AS and A level Mathematics Large Data Set](#) 

[Mathematical Formulae and Statistical Tables](#) 

[Assessment Support](#) 

A level Accessibility Improvements

Information about the improvements we have made to our exam papers since the Summer 2019 series and how we have embedded key principles to ensure our exams are more accessible and that all students have a positive exam experience.

[Accessibility Improvements](#) 

[A Guide for our Question Paper Improvements](#) 

Sample Assessment Materials and Model Answers

Sample Assessment Materials

[AS Mathematics](#) 

[A level Mathematics](#) 

Sample Assessment Materials Model Answers

[Pure](#) 

[Statistics](#) 

[Mechanics](#) 

Content Exemplification

This booklet exemplifies the AS and A level Mathematics content with examples of associated questions from the relevant Sample Assessment Materials (SAMs).

AS and A level Mathematics Content Exemplification 

These booklets detail the content references and provides sample questions for each content topic taken from the Sample Assessment Materials.

AS Mathematics Sample Assessment Materials Exemplification 

A level Mathematics Sample Assessment Materials Exemplification 

Enhanced Content Guidance

This guidance provides further clarification of content areas within the A level Mathematics specification, with some examples of questions to add further clarity. This document also provides further guidance on the use of calculators.

A level Mathematics 9MA0 Enhanced Content Guidance 

Qualifications and Assessment Guide

This guide provides an overview of the GCE Mathematics and Further Mathematics specifications. It will help you get to grips with the changes to content and assessment, and to understand what these mean for you and your students, to support your planning, teaching and assessing.

Qualifications and Assessment Guide 

Content Mapping to Other Qualifications

Mapping documents between the GCE 2008 and GCE 2017 AS and A level Mathematics specifications and to the textbooks, from our publishing team.

Content mappings 

Schemes of Work

We have provided schemes of work, for both AS and A level Mathematics, and teaching with Further Mathematics qualifications for different models of delivery. New links for technology resources have been added.

Standalone AS and A level Mathematics only

[AS Mathematics 1 year SOW](#) 

[A level Mathematics 2 years SOW](#) 

Parallel delivery with Mathematics and Further Mathematics

[AS level - Parallel delivery](#) 

[A level - Parallel delivery](#) 

Consecutive delivery for Mathematics and Further Maths

[AS level - Consecutive delivery](#) 

[A level - Consecutive delivery](#) 

Interactive Schemes of Work

We've created a digital interactive scheme of work, tailored to the way you want to deliver our 2017 qualifications. Like a traditional scheme of work, our interactive scheme of work provides you with a guide for teaching the content, including a suggested teaching order, an idea of when to teach and how long to spend on each topic, and teaching prerequisites.

[Interactive Schemes of Work](#) 

Course Planners

These documents have been compiled to help departments implement the specifications. A range of possible approaches to planning the course are provided, these are suggestions only and none are intended to be prescriptive (there are many teaching approaches and we are only listing a selection). Please refer to the schemes of work to aid the delivery of the content.

Standalone AS and A level Mathematics only

[AS and A level Mathematics Course Planner](#) 

Parallel or Consecutive delivery for Maths and Further Maths

[AS and A level Further Mathematics Course Planner](#) 

Teacher Guides – Statistics and Mechanics

These booklets look at the content of AS and A level Mathematics qualifications and are intended to offer explanations of the terminology that is being used in specifications, guidance on how to approach teaching and help on where and how to use technology to support the delivery of the course.

[Teaching Guide – Statistics for AS and A level Mathematics](#) 

[Teaching Guide – Mechanics for AS and A level Mathematics](#) 

Use of Technology – GeoGebra Resources

This document contains links to interactive GeoGebra activities to help you teach the content of AS and A level Mathematics.

These can be used for teaching, or as students' aided or independent learning materials with Pearson Textbooks.

[A guide to use GeoGebra when teaching AS and A level Mathematics](#) 

Use of Technology - Calculator Resources

This guide contains links to videos designed to help you teach the content of AS and A level Mathematics qualifications with the aid of the calculator. **FX-991EX ClassWiz advanced scientific calculator and FX-CG50 Graphic calculator are featured in these videos.**

These can be used for teaching, or as students' aided or independent learning materials with Pearson Textbooks.

[A guide to use calculators when teaching AS and A level Mathematics](#) 

[Calculator FAQs](#) 

Marking guidance

This video explores the key principles of marking and carefully examines the mark scheme notes and their implications.

AS and A level Marking Guidance 

Previous training is available on the YouTube playlist and the slides on the Emporium. The links can be found in the professional development section.

Top Tips for revision

This is a student poster detailing tips on how to get ready for the exam season.

Top Tips for AS and A level Mathematics Poster 

GCSE to GCE Transition resources

Baseline tests and mark schemes for both AS and A level Mathematics.

Baseline Tests

A series of worksheets on key topics with examples and steps to help students make the transition from GCSE to GCE AS and A level.

Transition worksheets

A collection of Example sheets, Practice Questions and Mark Schemes to assist the transition from GCSE to A level Mathematics. Videos on Pearson website showing examples from Pearson textbooks. You do not need the textbook to use these resources.

Crossover topics videos and worksheets

A collection of questions from GCE papers covering GCSE Higher tier topics.

GCE Questions for GCSE Higher tier

Topic Tests

Topic tests for AS Mathematics (2017) compiled from legacy questions taken from the A level papers over the last six year or so and mapped to the new specification requirements.

AS Mathematics

Pure 

Statistics 

Mechanics 

A level Mathematics

Pure 

Statistics 

Mechanics 

Unit Tests

Unit tests and mark schemes to support delivery of AS and A level Mathematics, for specific topics or learning requirements. Also available on ActiveLearn.

AS Mathematics

[Pure](#) 

[Statistics](#) 

[Mechanics](#) 

A level Mathematics

[Pure](#) 

[Statistics](#) 

[Mechanics](#) 

Shadow Unit Tests

Shadow versions of the unit tests with mark schemes to support AS Mathematics delivery.

AS Mathematics

[Pure](#) 

[Statistics](#) 

[Mechanics](#) 

Bronze Silver Gold worksheets

These worksheets can be used as topic tests or skills gap analysis. Pure worksheets are non-calculator. These topics refer to the relevant chapters in the Pearson textbooks, however, you do not need the textbooks for using these worksheets.

The Platinum Questions are taken from the Advanced Extension Award, you can use these in class as high-level problem-solving questions.

AS Mathematics

[Pure](#) 

[Statistics](#) 

[Mechanics](#) 

A level Mathematics

[Pure](#) 

[Statistics](#) 

[Mechanics](#) 

Extra Online Content for Pearson Textbooks

Use these content finders to find Solution Bank, GeoGebra interactives and Casio calculator support for Pearson AS and A level Mathematics textbooks.

[Pure Mathematics Year 1/ AS](#) 

[Statistics and Mechanics Year 1](#) 

[Pure Mathematics Year 2](#) 

[Statistics and Mechanics Year 2](#) 

[Textbooks resource update](#) 

New Content to 2017 Specification Resources

These two sets of worksheets contain examples and exercises covering a range of Pure Mathematics contents for AS and A level Mathematics qualifications.

[AS and A level Mathematics New Content Resources – Pure Mathematics](#) 

Modelling Questions

A collection of questions taken from previous A level Mathematics Pure Mathematics papers – essentially every question with the word 'model' included.

[Pure Maths Modelling Questions](#) 

Large Data Set

Four sets of activities including Teachers' notes and students' worksheets, to support teaching the large data set.

[Large data set activities](#) 

These provide some teaching ideas and summarised graphs to support the teaching of the large data set.

[Large Data Set presentation](#) 

[Large Data Set Summary Statistics](#) 

[Graphs from the Edexcel Large Data Set](#) 

[Statistics – Starter for 10](#) 

Past Papers

Past Papers including pdf and word versions of the question papers and mark schemes since the first sitting in June 2018.

Past papers 

Modified papers help ensure that candidates with varying needs can access the examination materials needed to accurately assess their skills and knowledge. There is a variety of formats available, each of which aims to accommodate a range of difficulties. The modified papers dependent on needs of the students taking that particular exam series.

Modified papers 

Examiner Reports and Exemplar Materials

Examiner reports with examiner commentaries on selected questions from the exam session.

Examiner reports 

Real student responses to questions in past papers, and how the examining team follow the mark schemes to demonstrate how the students would be awarded marks on these questions.

Exemplar Student Responses 

Examiner reports and exemplar responses with examiners commentaries on selected questions from examination sessions.

Examiner reports and Exemplar Student Responses 

Grade Boundaries and Enhanced Skills Maps

Grade boundaries every year from 2018.

Grade Boundaries 

Enhanced skills maps – spreadsheets include data to help compile your own tests from previous exam series, SAMs and Specimen questions.

Enhanced Skills Maps 

Enhanced QLAs

The Enhanced Question Level analysis spreadsheets can be used to give your students feedback, on mock exam questions, in relation to performance figures from the live exam series.

Enhanced Question Level Analysis 

Question Level Analysis Video 

Specimen Papers

Additional Specimen Sets have been created to provide further exam practice. These include a full set of AS and A level Mathematics question papers and mark schemes.

AS level Mathematics Specimen Papers 

A level Mathematics Specimen Papers 

Mock Papers

Each Mock Set contains a complete set of Pure, Statistics and Mechanics question papers and mark schemes. Word versions of each Mock Set are available on the Maths Emporium.

AS and A level Mathematics Mock Papers 

AS and A level Mathematics Mock Papers 

Exam-style Practice Papers

Exam-style practice papers and mark schemes for AS and A level Mathematics. The Practice Papers are mixed topic papers which can be used for Mocks or revision. They are compiled from various sources including ActiveLearn, new questions written by the examiners and mixed questions from unit tests.

[Practice Papers](#) 

Shadow Papers

Shadow papers are versions of the papers sat in examinations but with numbers and contexts changed where possible. These papers test much of the same content as the originals (and so the same grade boundaries apply) but cannot be found elsewhere by students. Student-friendly versions of the mark schemes are provided for these papers.

[AS Mathematics Shadow Papers](#) 

[A level Mathematics Shadow Papers](#) 

Re-ordered Papers

Re-ordered papers are created by taking an exam series, putting the questions from the Pure and Applied papers in the order of difficulty that the students found when they sat the papers. These have been used to create two (AS) or three (A level) levels of paper: Bronze, Silver and Gold. Each contains a mix of Pure and Applied Questions.

[AS Mathematics Re-ordered Papers](#) 

[A level Mathematics Re-ordered Papers](#) 

Past Training Resources

Past training materials from past Feedback, Getting Ready to Teach and Launch events have been made available including:

- CPD Network events
- Resources to support teaching

[Professional Development Videos - YouTube playlist](#) 

[Professional Development Materials - Maths Emporium](#) 

Training and Live Events

Here you can find all the information you need on upcoming training events, network events and live online training events. All designed to help you deliver Pearson Edexcel AS and A level Mathematics with confidence.

[Live Events](#) 

Other related Level 3 Maths Specifications

As well as AS and A level Mathematics (2017), we offer lots more qualifications at level 2 and 3. We provide Past Papers, Mocks, Specimen Papers as well as classroom resources and practice papers for these qualifications available in the Maths Emporium.

Maths Emporium 

For more information on current specifications, please visit our Qualifications website.

Pearson Qualifications Website 

For an overview of a range of qualifications that are appropriate for learners depending on both their prior attainment in Mathematics and their plans for further study and future employment.

Mathematics Learning Journeys 

Legacy A level Mathematics

Maths Emporium 

A level Statistics

Maths Emporium 

A level Statistics Qualification 

International Advanced Level Mathematics (IAL)

Maths Emporium 

IAL Mathematics Qualification 

Advanced Extension Award

Maths Emporium 

Advanced Extension Award 

Edexcel Awards in Mathematics

Maths Emporium 

Edexcel Awards in Mathematics 

Mathematics in Context (Level 3 Core Maths)

Maths Emporium 

Mathematics in Context 

Edexcel Online

If you are unsure whether you have Edexcel Online login details, please contact your Exams Administrator in the first instance. They manage the Edexcel Online accounts for your centre and will be able to give you access to download materials or set you up with login details.

Maths Emporium

If you are not registered with the Maths Emporium, you can sign up using the Login/Register button at www.mathsemporium.com. When registering it is important you use a school email address and enter your centre number. This helps us verify who is requesting access to this bank of resources. It usually takes around 24 hours for your registration to be accepted.

You also have...

Your Mathematics and Statistics subject advisor

UK phone: **0344 463 2931**

Intl phone: **+ 44 (0)344 463 2931**

Email/live chat: [Contact us here!](#) 

X: [@PearsonEdexcel](#) 

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