

Collins

MATHS 2017-2018

KS3 • GCSE • International GCSE
A-level • Revision

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WHY MATTER

We believe that textbooks give you the freedom to teach. They provide a framework, letting you focus on what you enjoy – teaching. Textbooks Matter is our campaign in support of the textbook. Visit collins.co.uk for blogs, video and updates, and make sure you have your say!

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Welcome to the 2017 Maths Catalogue.

Inside you'll find lots of useful information on resources for KS3, GCSE and A-level from Collins, including revision guides and information on free teaching support. See below for details of some exciting new publishing and features available from Collins.

Want to take a closer look? For more information on any of our series, please don't hesitate to contact one of our sales consultants – they'll be happy to answer your questions or come and visit your school. Find your local representative's details on the back page.

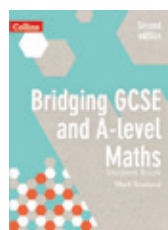


What's new?

GCSE Maths for post-16

Help students succeed in GCSE Maths at post-16 with student books that build exam confidence and help to master maths.

See page 14



Bridging GCSE and A-level Maths

Ensure students are prepared for A-level Maths with this revised second edition of Bridging GCSE and A-level Maths, fully updated for the GCSE Maths 9-1 and A-level 2017 specifications.

See page 17



Edexcel A-level Mathematics

Master A-level Mathematics with supportive and comprehensive new resources for the 2017 Edexcel specification.

See page 18



Sign up for our e-newsletter

Get the latest news and offers from Collins, delivered straight to your inbox!

Sign up for Collins Maths emails at www.collins.co.uk/register




Find out more

Visit www.collins.co.uk for information on all our series, curriculum change advice and free content to support your teaching.

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Key icons in the catalogue

-  New resources
-  Age range
-  For Key Stage 3
-  For GCSE
-  For AS and A-level
-  Suitable for all exam boards
-  For Functional Skills

Digital resource available on Collins Connect online learning platform:



Specification information

Exam board specific:





  

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 Tweet us @FreedomToTeach

 Subscribe to the Collins Ed YouTube channel.

 For free teaching ideas and resources, visit our blog: freedomtoteach.collins.co.uk

The Shanghai Maths Project

Edited and translated by **Professor Lianghuo Fan**



Secondary Resources for Years 7-11 coming from March 2017!

Based on maths teaching in Shanghai, this series of practice books for years 1-11 provides complete coverage of the maths curriculum for England.

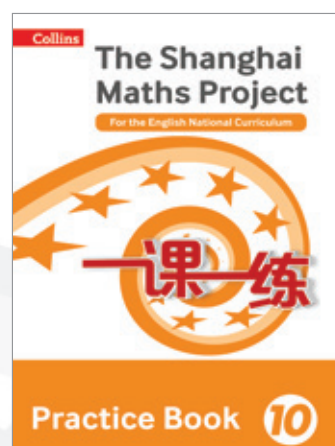
The Shanghai pedagogy is based on:

- A reinforcement from teachers that everyone can achieve high standards in maths, leading to pupil engagement and excitement about maths
- A methodical curriculum design that helps pupils to progress at the same pace
- A step-by-step teaching approach that builds procedural fluency and understanding of underlying mathematical concepts in tandem
- Immediate feedback where misconceptions are addressed as they occur. Pupils get help and support directly as they work through each lesson



The Shanghai Maths Project Practice Books:

- Contain 8–10 chapters made up of exercises and include end of unit tests and an end of year test
- Carefully crafted practice materials refined over the last 24 years
- Small steps of progression, with practice at each stage
- Enough questions to thoroughly practise and embed understanding, and no more
- Supplementary practice material that is not tied to a restrictive programme
- Full coverage of the curriculum objectives for England



Title	ISBN	Price	Pub Date
Practice Book 7	978-0-00-814468-5	£7.99	Mar 2017
Practice Book 8	978-0-00-814469-2	£7.99	Apr 2017
Practice Book 9	978-0-00-814470-8	£7.99	Jun 2017
Practice Book 10	978-0-00-814471-5	£7.99	Jul 2017
Practice Book 11	978-0-00-814472-2	£7.99	Aug 2017

Find out more about the Shanghai pedagogy at www.collins.co.uk/ShanghaiMaths

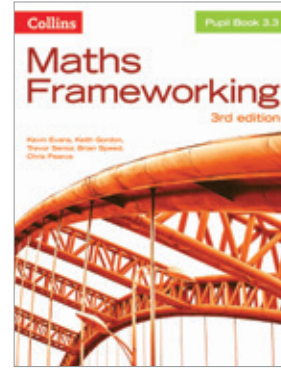
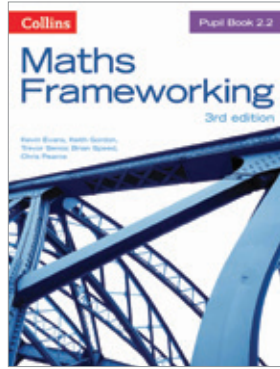
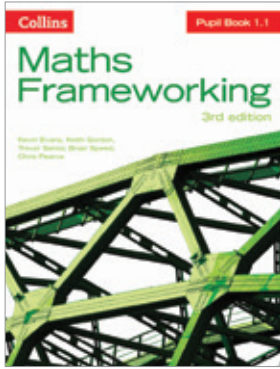
Maths Frameworking

Collins Connect

Age 11-14 KS3

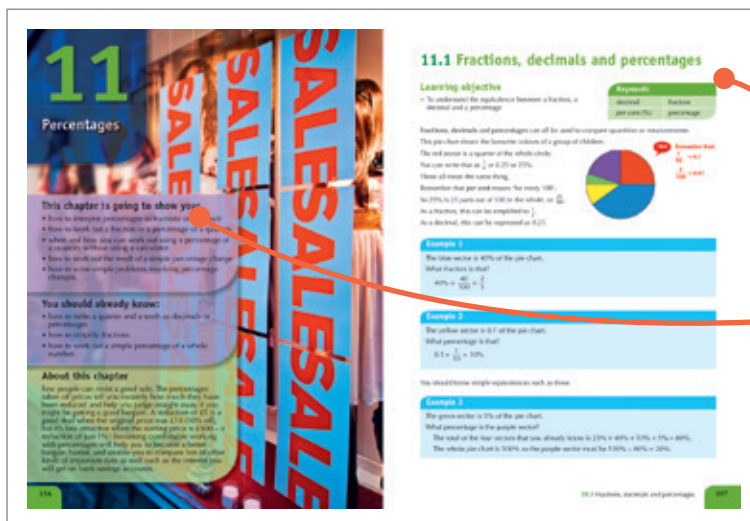
Third edition

Authors: Kevin Evans, Keith Gordon, Trevor Senior, Brian Speed and Chris Pearce



The right progression for all levels.

- Enable all students to progress with fully differentiated resources
- Teach flexibly with resources that work well for both a 2-year and 3-year Key Stage 3
- Allow students to consolidate and embed their learning with thousands of practice questions and worked examples
- Enable your students to develop their problem-solving and mathematical reasoning skills, with dedicated practice questions flagged throughout the books
- Break up lessons and maintain students' interest in mathematics with longer tasks which are relevant to real-life including investigations, challenges, practical activities, problem-solving, financial skills and mathematical reasoning tasks
- Encourage students to make links between different areas of mathematics with synoptic questions included at the end of every chapter
- Provide students with the practice they need with accessible Homework Books
- The dedicated Skills Booster Book will support your students in developing the skills they need for GCSE
- Take action when students are not making the required level of progress with one-to-one Intervention Workbooks that focus on basic skills and mathematical fluency
- Inspire and engage students with brand new digital resources to motivate and encourage independent learning. Our digital resources also include automarked homework and assessments to support teachers too!



Focus on literacy skills with key words for each topic and a glossary included

Inspire pupils with a chapter opener that puts maths in context

Maths Frameworking on Collins Connect

Teach Key Stage 3 Maths flexibly and in a way that suits your students, with a full suite of digital resources.

Digital resources for **Collins Maths Frameworking** have been carefully selected to improve and build on key skills in maths such as fluency, problem-solving, correcting common misconceptions, using the correct vocabulary, applying maths to real-life scenarios, and to encourage independent learning.

Assess students' progress with half term tests and end of year tests to check they have the knowledge to move on. Save time with auto-marked homework for every lesson and use 'front of class view' on the whiteboard for front of class teaching with page-to-page match with the pupil books.

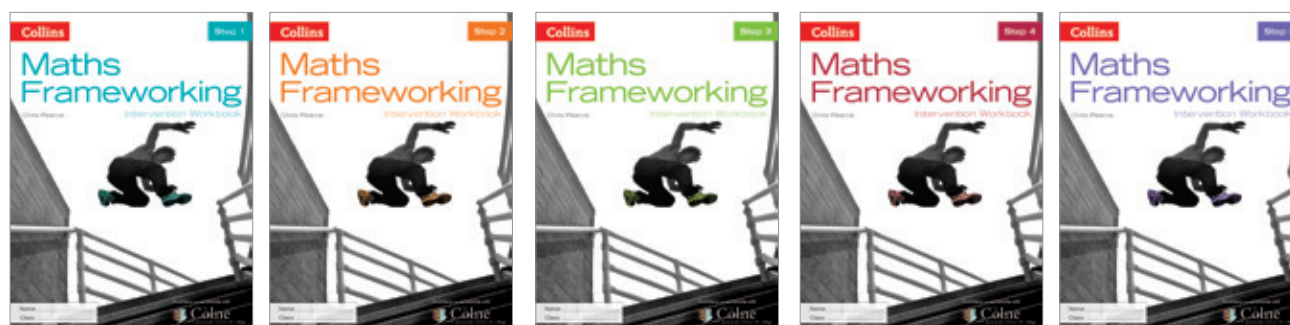


Sample from *Maths Frameworking on Collins Connect*

One-to-one Intervention Programme

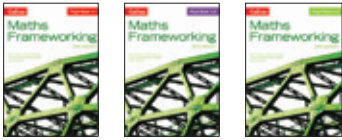



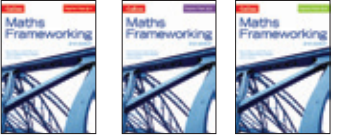
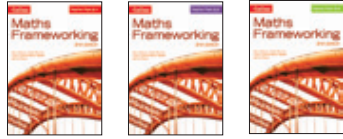











Write-in workbooks for students that need extra support

Support teaching staff and parents with resources designed to be used one-to-one to provide students with focused support to overcome identified weaknesses.



Developed with The Colne Community School & College, an Ofsted 'Outstanding' school in Brightlingsea, Essex.

Maths Frameworking components

	Year 7	Year 8	Year 9		
Pupils Book	 <p>Pupil Book 1.1 978-0-00-753771-6 £15.99</p> <p>Pupil Book 1.2 978-0-00-753772-3 £15.99</p> <p>Pupil Book 1.3 978-0-00-753773-0 £15.99</p>	 <p>Pupil Book 2.1 978-0-00-753774-7 £15.99</p> <p>Pupil Book 2.2 978-0-00-753775-4 £15.99</p> <p>Pupil Book 2.3 978-0-00-753776-1 £15.99</p>	 <p>Pupil Book 3.1 978-0-00-753777-8 £15.99</p> <p>Pupil Book 3.2 978-0-00-753778-5 £15.99</p> <p>Pupil Book 3.3 978-0-00-753779-2 £15.99</p>		
	Teacher Packs	 <p>Teacher Pack 1.1 978-0-00-753781-5 £100.00</p> <p>Teacher Pack 1.2 978-0-00-753782-2 £100.00</p> <p>Teacher Pack 1.3 978-0-00-753783-9 £100.00</p>	 <p>Teacher Pack 2.1 978-0-00-753784-6 £100.00</p> <p>Teacher Pack 2.2 978-0-00-753785-3 £100.00</p> <p>Teacher Pack 2.3 978-0-00-753786-0 £100.00</p>	 <p>Teacher Pack 3.1 978-0-00-753787-7 £100.00</p> <p>Teacher Pack 3.2 978-0-00-753788-4 £100.00</p> <p>Teacher Pack 3.3 978-0-00-753789-1 £100.00</p>	
		Online Teacher Resource Powered by Collins Connect – including Interactive Book – tests and reporting – homework	 <p>3 year subscription 978-0-00-756373-9 • £700.00</p> <p>1 year subscription 978-0-00-756374-6 • £250.00</p>	 <p>3 year subscription 978-0-00-756381-4 • £700.00</p> <p>1 year subscription 978-0-00-756382-1 • £250.00</p>	 <p>3 year subscription 978-0-00-756389-0 • £700.00</p> <p>1 year subscription 978-0-00-756390-6 • £250.00</p>
Homework Books			 <p>Level 1 978-0-00-753763-1 • £7.99</p>	 <p>Level 2 978-0-00-753764-8 • £7.99</p>	 <p>Level 3 978-0-00-753765-5 • £7.99</p>
	Maths Skills Builder	 <p>Maths Skills Builder 978-0-00-753780-8 • £5.99</p>			
One-to-One Intervention Workbooks	 <p>Step 1 978-0-00-753766-2 £5.99</p>	 <p>Step 2 978-0-00-753767-9 £5.99</p>	 <p>Step 3 978-0-00-753768-6 £5.99</p>	 <p>Step 4 978-0-00-753769-3 £5.99</p>	 <p>Step 5 978-0-00-753770-9 £5.99</p>

The prices quoted here are for individual components.

Our Sales Consultants are always happy to discuss your requirements and find a package that suits your needs, including exclusively digital solutions.

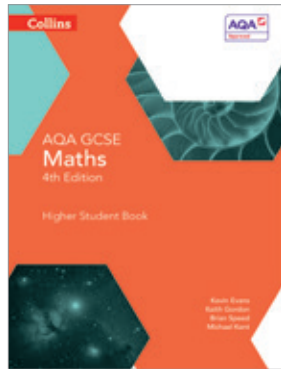
* The Online Package allows unlimited access for teachers and students to the online content in school, including whiteboard use. Full terms and conditions can be found online at www.connect.collins.co.uk

GCSE Maths, 4th edition for AQA and Edexcel

Collins Connect

GCSE

Authors: Kevin Evans, Keith Gordon, Brian Speed, Michael Kent



The Student Books are AQA approved.

The Student Books are endorsed by Edexcel.

The fourth edition of GCSE Maths from Collins has been completely revised and updated to develop and embed the skills your students need, while providing a clear and supportive route through the new, more challenging GCSE content.

- **More opportunities for practice** – targeted support for your students with tailored, differentiated resources designed to provide extra practice where it is most needed. Choose from **Skills Books** which focus on reasoning and problem solving, **Practice Books** which focus on fluency and a **Grade 4/5 Booster Workbook** to provide additional practice around those crucial grades, plus hundreds of differentiated questions in the Student Books. The Skills Books, Practice Books, Workbooks and Online Resource have not been through the AQA approval or Edexcel endorsement process
- **Flexible routes through the curriculum** – however you want to teach it. The structured teacher resources provide options for covering the GCSE in two, three, or five years, plus support on how to tackle the new content that has moved from A-level to GCSE and from Higher tier to Foundation
- **Easy for your students to get to grips with** – content is designed to be as clear and easy to understand as possible whilst covering the new, harder topics, featuring clear sign-posting of skills plus plenty of practice for fluency and consolidation
- **On-going assessment opportunities** – track progress with auto-marked end of chapter, half term and end of year tests - which give you and your students regular knowledge checks before moving on, and help prepare students for final assessment with practice papers

Visit www.collins.co.uk/GCSEmaths for samples, route maps, 2, 3 and 5-year schemes of work, answers, free teaching resources and more.

For full details please see the order form and component chart

GCSE Maths, 4th edition for AQA and Edexcel

Deliver the 2015 GCSE Maths curriculum with confidence.

Student Books:

- Fully revised and updated for the 2015 GCSE specifications for AQA and Edexcel. The Student books are approved by AQA and endorsed by Edexcel
- Written by experienced teachers and expert authors
- Focused on fluency, mathematical reasoning and problem solving skills with detailed worked examples and hundreds of practice questions

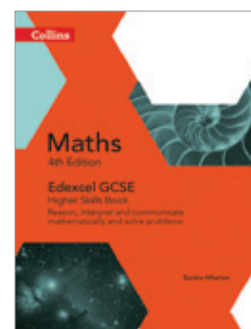
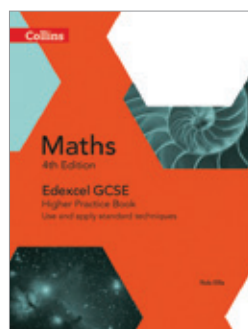
Teacher Packs:

- Help students achieve a smooth transition from KS3 to GCSE with carefully structured lessons and thorough explanations of the assessment objectives
- Plan ahead with detailed, practical schemes of work for 2, 3 and 5 year teaching
- Extra teacher support on more challenging topics
- The AQA and Edexcel Teacher Packs have not been through the AQA approval or Edexcel endorsement process

Practice Books:

Available for both tiers, the Practice Books are designed to support students in achieving Assessment Objective AO1 - using and applying standard techniques. They are ideal for use both in the classroom or as a homework resource.

- Build students' confidence with hundreds of differentiated practice questions
- Easily identify topics for further practice, intervention, prior knowledge recall and revision
- Challenge your most able students with plenty of ambitious questions



The Skills Books, Practice Books, Workbooks and Online Resource have not been through the AQA approval or Edexcel endorsement process

Skills Books:

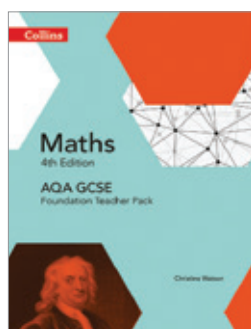
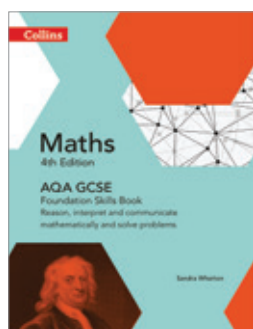
Available for both Foundation and Higher tier, the Skills Books support students in achieving Assessment Objectives AO2 and AO3: reason, interpret and communicate mathematically; and solve problems.

- Improve literacy, thinking skills and investigative strategies by providing opportunities for students to tackle problems within and outside mathematics
- Build confidence in tackling longer questions in class and allow further practice at home
- Encourage students to think and analyse their work with questions designed to encourage independence

Grade 4/5 Booster Workbooks:

These write-in Booster Workbooks provide more practice for those students who require additional support.

- Ideal for revision, intervention groups and booster classes
- Improve students' confidence with plenty of practice questions targeted at the right level



GCSE Maths, 4th edition on Collins Connect

Collins Connect

Teach GCSE Maths flexibly and in a way that suits your students with an in-depth suite of digital resources.

Digital resources for GCSE Maths have been selected to improve and build on key skills in maths such as fluency, problem-solving, correcting common misconceptions, using the correct vocabulary, and encouraging independent learning.

Engaging lessons:

- You can access the Student Book on Connect, formatted for easy use section-by-section in classroom. The front of class feature provides total fluidity between digital and print
- Boost literacy with an interactive glossary and literacy games
- Provide support and practice with a problem-solving feature in every chapter
- Focus on AO3 with problem solving skills builder videos which go through questions step by step
- Reinforce concepts with video tutorials and animations

Assessment and homework:

- Auto-marked test questions help students check their progress and understanding of topics as they move through the course and provide you with an overview of strengths and weaknesses.
- Assign homework and tests to individuals or your whole class
- Progress and review feature that helps students know what they should have learnt and how they are progressing, followed by useful review questions
- End of chapter homework auto-marked tests for every chapter
- Prepare for final assessments with downloadable exam-style practice papers with mark schemes

Clear navigation using the book view feature makes Collins Connect simple and easy to use

Automarked questions enable students to check their progress at the end of each chapter



You can trial GCSE Maths 4th edition on Collins Connect completely free for 14 days.











Email education.support@harpercollins.co.uk to find out more.

We also have a free sample chapter available to view online, simply visit:











<http://connect.collins.co.uk/secondary-teaching-resources>

GCSE Maths 4th edition components

For AQA

Student Book	 Foundation 978-0-00-759743-7 £19.99	 Higher 978-0-00-759734-5 £19.99
Teacher Packs	 Foundation 978-0-00-811392-6 £100	 Higher 978-0-00-811391-9 £100
Interactive Book, Homework and Tests - powered by Collins Connect	Foundation 1 year subscription 978-0-00-811411-4 • £250 Foundation 3 year subscription 978-0-00-811415-2 • £700 Higher 1 year subscription 978-0-00-811409-1 • £250 Higher 3 year subscription 978-0-00-811413-8 • £700	
Skills Builder - a smooth transition from KS3 to GCSE	 978-0-00-753780-8 £5.99	
Skills Books	 Foundation 978-0-00-811386-5 £7.99	 Higher 978-0-00-811385-8 £7.99
Practice Books	 Foundation 978-0-00-811384-1 £7.99	 Higher 978-0-00-811383-4 £7.99
Booster Workbook	 Foundation 978-0-00-811419-0 £5.99	

For Edexcel

Student Book	 Foundation 978-0-00-811382-7 £19.99	 Higher 978-0-00-811381-0 £19.99
Teacher Packs	 Foundation 978-0-00-811394-0 £100	 Higher 978-0-00-811393-3 £100
Interactive Book, Homework and Tests - powered by Collins Connect	Foundation 1 year subscription 978-0-00-811412-1 • £250 Foundation 3 year subscription 978-0-00-811417-6 • £700 Higher 1 year subscription 978-0-00-811410-7 • £250 Higher 3 year subscription 978-0-00-811414-5 • £700	
Skills Builder - a smooth transition from KS3 to GCSE	 978-0-00-753780-8 £5.99	
Skills Books	 Foundation 978-0-00-811390-2 £7.99	 Higher 978-0-00-811389-6 £7.99
Practice Books	 Foundation 978-0-00-811388-9 £7.99	 Higher 978-0-00-811387-2 £7.99
Booster Workbook	 Foundation 978-0-00-811420-6 £5.99	

The prices quoted here are for individual components. Our sales consultants are always happy to discuss your requirements and find a package that suits your needs, including exclusively digital solutions. For the full terms and conditions please visit www.connect.collins.co.uk. The Collins Connect package allows unlimited access for teachers and students in school, including whiteboard use.

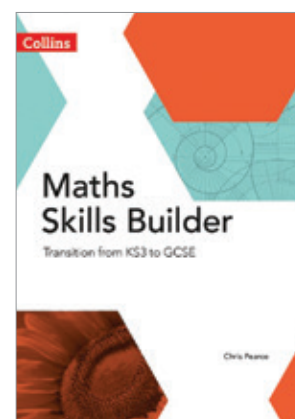
Maths Skills Builder



Extra support for a smooth transition from KS3 to GCSE

Author: Chris Pearce

- Get a head start on GCSE in Year 9
- Focus on two of the main aims of the new curriculum - mathematical reasoning and problem-solving - with additional practice and explanation
- Develop GCSE skills with longer, more descriptive questions that support the development of students' literacy, thinking skills and investigative strategies
- Use flexibly in the classroom or as a homework resource
- Assess learning with answers and comments included in a tear-out section

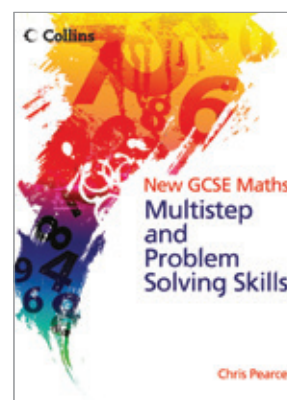


Title	ISBN	Price
Maths Skills Builder	978-0-00-753780-8	£5.99

New GCSE Maths – Multistep and Problem Solving Skills

Age 14-16 Generic GCSE

Help students at all levels improve their problem solving skills, with dedicated practice for Number, Algebra, Geometry, Measures, Probability and Statistics



Title	ISBN	Price
New GCSE Maths – Multistep and Problem Solving Skills	978-0-00-752040-4	£5.99

Functional Skills

Generic FS Age 14-16 GCSE

Authors: Andrew Bennington, Andrew Manning and Dr Naomi Norman

Engage students in functional skills with this dedicated Student Book.

Forty exciting tasks to integrate into your GCSE lessons with downloadable guidance and support to ensure that you can get the most from these activities.



Title	ISBN	Price
Student Book	978-0-00-741006-4	£12.99

GCSE Statistics

Authors: Anne Busby, Rob Ellis, Rachael Harris, Andrew Manning and Jayne Roper

Final exam June 2018

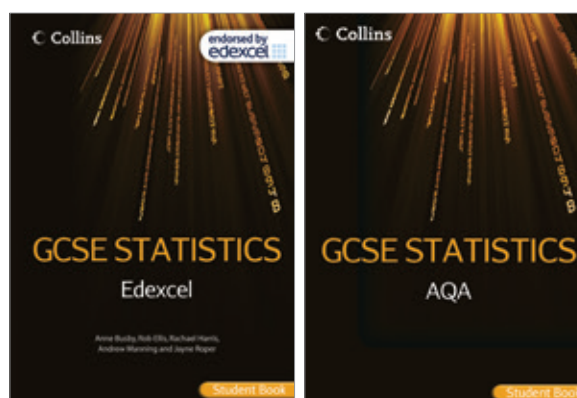
For AQA For Edexcel

Age 14-16 GCSE

Support your students through the 2009 GCSE Statistics Qualifications

Give students plenty of practice and help them to monitor their own progress with colour-coded graded practice questions in every exercise. The dedicated Practice Books provide a wealth of exam-style practice questions.

See the order form for full details.



Personalised learning for maths

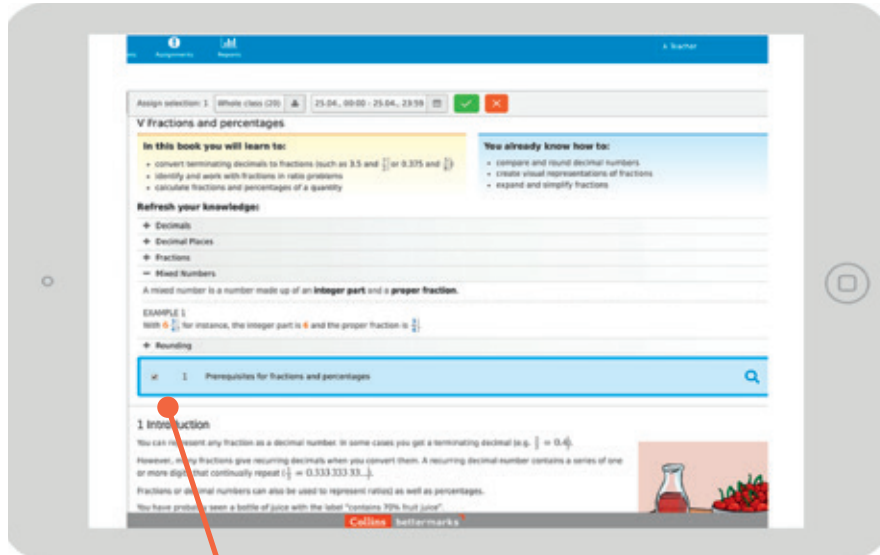
Adaptive learning for the new GCSE maths curriculum is here!

Discover a pioneering online platform for GCSE Maths, a step ahead of any other digital resources available. Sophisticated technology enables your students to access truly personalised learning – much more than just automarked questions. Diagnose weaknesses early and close the gap with bettermarks[®] which continuously adapts to develop students' understanding ensuring no-one gets left behind in GCSE Maths.



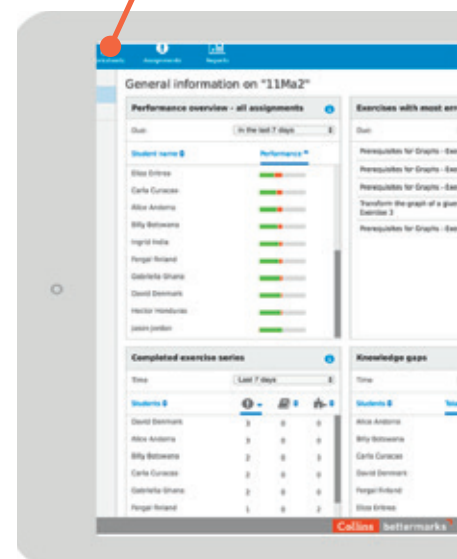
Introducing bettermarks[®]

Ensure no-one gets left behind. bettermarks[®] is for everyone in your class, enabling them to make as much progress as possible. It is the only genuinely personalised online learning programme for the new GCSE Maths. Collins is delighted to introduce bettermarks[®] to the UK. Real-time specific feedback at every stage identifies and helps to close gaps in students' knowledge. Students learn from their mistakes and always get a second go when they get a question wrong. Thousands of varied questions, selected on each student's strengths and weaknesses, provide practice in different contexts.



Find out what each student knows before starting a topic with the prerequisites test and knowledge refresher.

See key information for your classes in the dashboard view including how many stars and coins earned for excellent work.



For more information and to sign up for a free trial visit www.collins.co.uk/bettermarks

How does bettermarks® work?

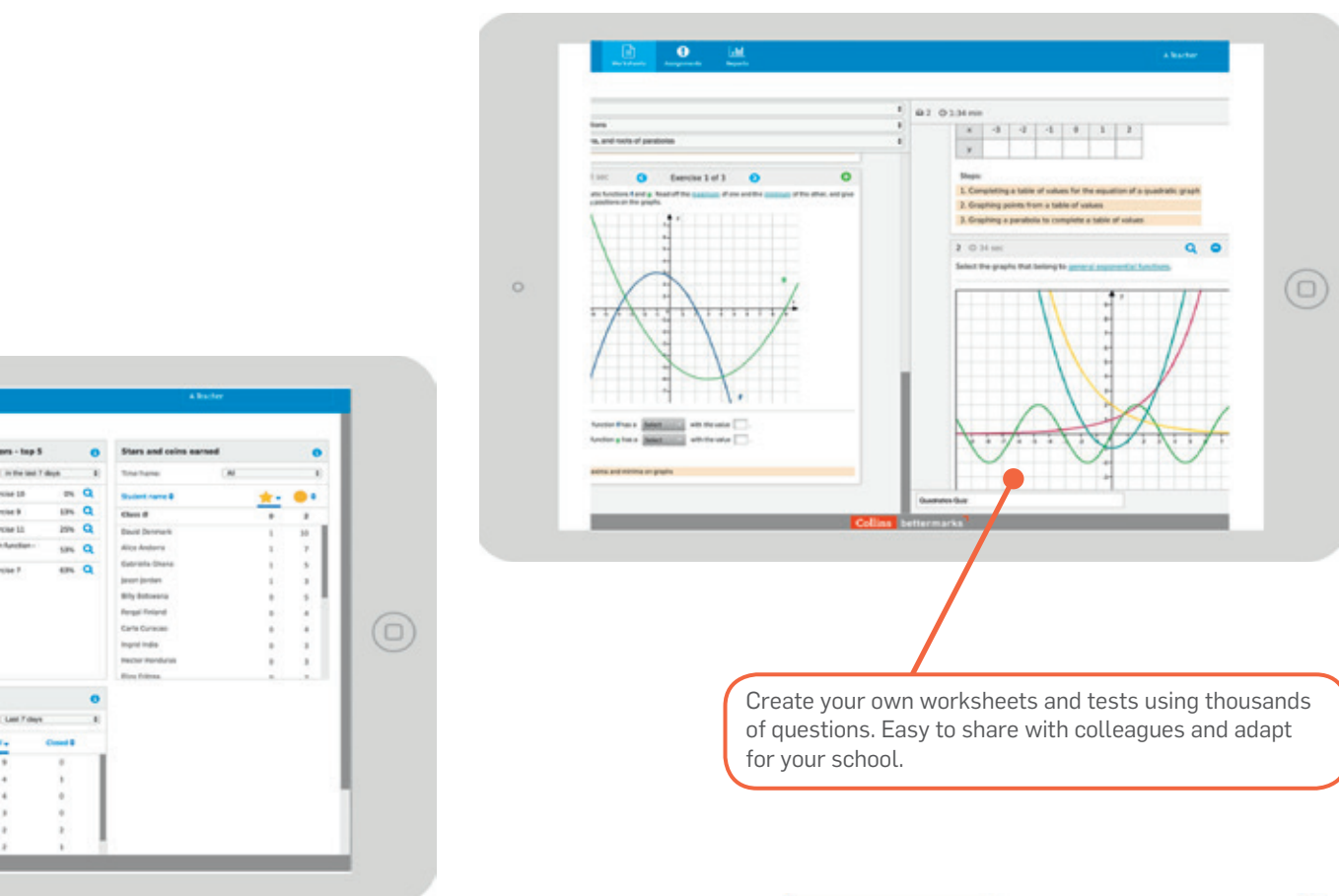
- 1 Students can learn from their mistakes. They always get a second go when they get a question wrong
- 2 They get personalised hints, and can check tips and the relevant section of the textbook before answering a second time
- 3 The adaptive technology within bettermarks® checks the thousands of competencies needed across the curriculum and flags up knowledge gaps where students are struggling
- 4 bettermarks® then helps students to close these knowledge gaps by giving them exercises that start off with easy questions and gradually get harder until the student is secure in their knowledge

bettermarks® – supporting students

- Intuitive and straightforward to use, students can learn independently and at a pace that suits them
- Easy to access via the web or an iPad and Android app
- Boost students' confidence and motivation through live feedback after small steps in solving the problems

bettermarks® – supporting teachers

- All topics in the new GCSE Maths curriculum are covered for AQA and Edexcel, Foundation and Higher
- The technology reduces your workload by cutting down on marking time and providing a clear view of progress in the dashboard and reports sections
- Build personalised tests and share with the whole department
- Full support with set-up and beyond ensures your school gets the best from the resource



Create your own worksheets and tests using thousands of questions. Easy to share with colleagues and adapt for your school.

Collins bettermarks®

GCSE Maths for post-16

For AQA

For Edexcel

NEW

Age
16+Author: **Fiona Mapp**

Achieve success in GCSE Maths at post-16 with student books that build exam confidence and help to master maths.

- A flexible course that can be used for a fast-track resit or full year course
- Fully tailored to the needs of post-16 students, with appropriate language and contexts
- Covers all of the key topics students need to succeed at GCSE, with plenty of focused practice
- Includes diagnostic questions to check initial subject knowledge and confidence and enable teachers and students to focus on areas of weakness
- Exam tips and techniques help students pick up smart marks and be ready for assessment



Title	ISBN	Price	Pub Date
AQA GCSE Maths for post-16			
Student Book	978-0-00-822721-0	£9.99	May 2017
Online resources: Powered by Collins Connect, 1 year licence	978-0-00-822723-4	£250.00 (+VAT)	Sept 2017
Online resources: Powered by Collins Connect, 3 year licence	978-0-00-822725-8	£600.00 (+VAT)	Sept 2017
Edexcel GCSE Maths for post-16			
Student Book	978-0-00-822722-7	£9.99	May 2017
Online resources: Powered by Collins Connect, 1 year licence	978-0-00-822724-1	£250.00 (+VAT)	Sept 2017
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Collins Subject Knowledge CPD: GCSE Mathematics Fundamentals

Collins Connect

GCSE

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Author: **Sandra Wharton**

Subject mastery and pedagogical support for teaching GCSE Maths 9-1

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Easy access via Collins Connect platform

Title	ISBN	Price	Pub Date
Collins Subject Knowledge CPD: GCSE Mathematics Fundamentals – Powered by Collins Connect, 1 year multi user licence	978-0-00-819255-6	£500.00 (+VAT)	Summer 2017

Further Maths Practice Book for the AQA Level 2 Certificate, Revised edition

For AQA

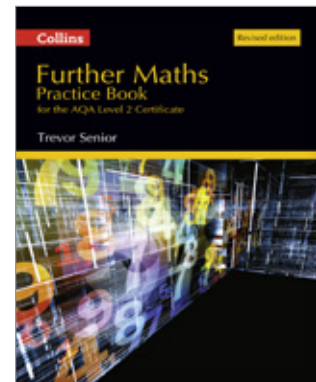
Age
14-16

GCSE

Author: Trevor Senior

Perfect for top GCSE grade students who want extra stretch and challenge and who are likely to progress to A-level Maths and Further Maths.

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- Check the answers at the back of the book



Title

ISBN

Price

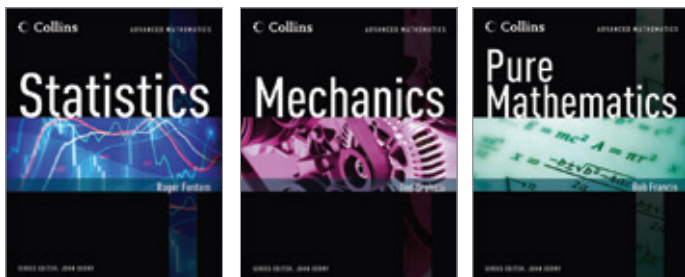
Further Maths Practice Book for the AQA Level 2 Certificate, revised edition	978-0-00-815862-0	£12.99
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Collins Advanced Mathematics

Age
16+

AS/A

Generic



A comprehensive resource for A-level which is also suitable for international curriculums

Title

ISBN

Price

Collins Advanced Mathematics Statistics	978-0-00-742904-2	£24.99
Collins Advanced Mathematics Mechanics	978-0-00-742905-9	£24.99
Collins Advanced Mathematics Pure Mathematics	978-0-00-742906-6	£24.99

Collins AQA Level 3 Certificate Mathematical Studies (Core Maths)

Age 16+

Collins Connect



Authors: Helen Ball, Peter Ransom and Mark Rowland

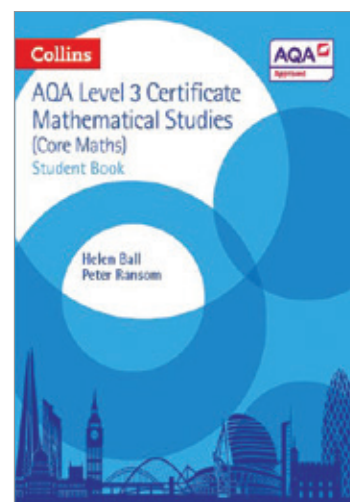
Engage and motivate your Level 3 Certificate Mathematical Studies (Core Maths) students with authentic real-world examples that bring the subject to life.

Student Books:

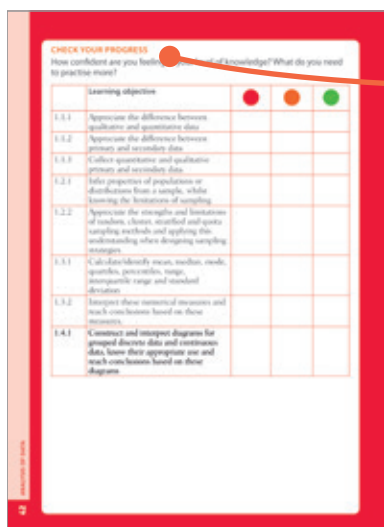
- Covers varying ability levels within the A* to C range at GCSE
- Encourages students to become problem solvers with a willingness to test out their ideas
- Competence statements at the end of every chapter allow students to measure their own progress
- Develop mathematical skills and understanding with authentic examples and ready to use data sets from a range of contexts
- Teach flexibly - a digital version of the student book is available on Collins Connect

Teacher Support:

- Pick up and teach exciting lessons for this new qualification. This guide provides a clear approach to the specification, makes links with other subject areas and takes the real-life contexts further. It supports non-specialist teachers with common misconceptions highlighted



The Student Book is AQA approved. The Teacher Support is not in the AQA approval process.



Check your progress sections allow students to assess how well they feel they have understood a topic and indicate where revision is needed

Mathematics in the real world sections put maths in context and demonstrate its relevance and importance in everyday life



Title

ISBN

Price

Collins AQA Core Maths Level 3 Mathematical Studies Student Book

978-0-00-811620-0

£19.99

Collins AQA Core Maths Teacher Support

978-0-00-814232-2

£100.00

Bridging GCSE and A-level Maths

Second edition

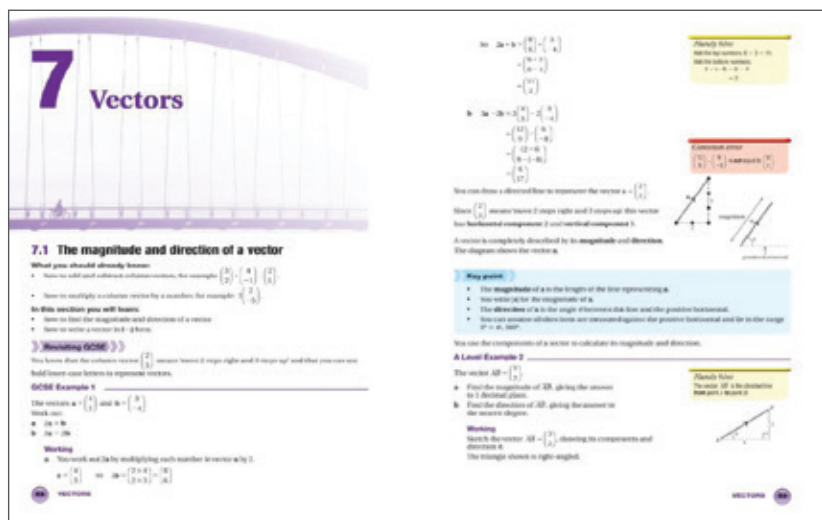
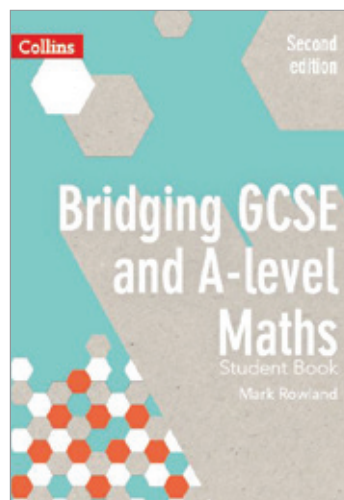


Author: Mark Rowland

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Chris Curtis, Head of Mathematics, Frome Community College

Title	ISBN	Price
NEW Bridging GCSE and A-level Maths Student Book Second Edition	978-0-00-820501-0	£6.99

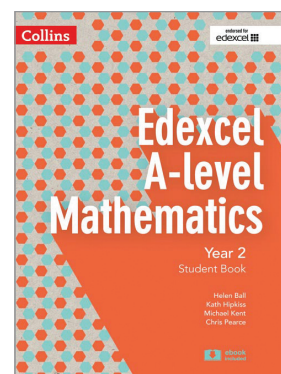
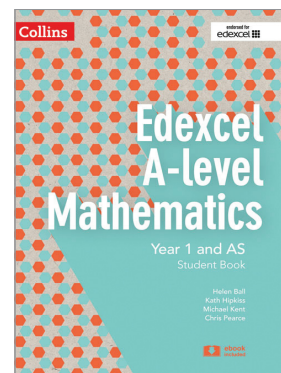
Edexcel A-level Mathematics

AS/A NEW
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Authors: Helen Ball, Kath Hipkiss, Michael Kent and Chris Pearce

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practice papers.

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4.4 Finding the equation of a straight line using the formula $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$ 4.4

Show that the points (2, 2), (5, 3) and (11, -3) lie on a straight line.

A cyclist climbs to the top of a hill then descends the other side. The profile of this ascent and descent are plotted on a pair of axes. The cyclist starts the climb at (-10, 0) and reaches the summit at (0, 4). The cyclist then descends from the summit to finish at (2, 2). Which is steepest part of the ride - the ascent or the descent? Find the gradient of the line passing through (3, 1) and (1, -2).

4.4 Finding the equation of a straight line using the formula $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$

If you know or are given the coordinates of two points, (x_1, y_1) and (x_2, y_2) , then you can use the formula $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$ to work out the equation of the line joining these points.

KEY INFORMATION
You can find the equation of the line joining two points with coordinates (x_1, y_1) and (x_2, y_2) using the formula $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$. You need to remember this formula as it is not given in the formula booklet.

PROOF
Show that $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$. State the formulae you are going to use. $y - y_1 = m(x - x_1)$
 $m = \frac{y_2 - y_1}{x_2 - x_1}$

4 COORDINATE GEOMETRY 1: EQUATIONS OF STRAIGHT LINES

Replace m in the first equation by the value from the second equation.

$$y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$$

Re-arrange:

$$\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$$

Example 7
Find the equation of the line between the y-intercept of $y = 2x + 3$ and the point (5, 0).

Write the equation of the line in the form $ax + by + c = 0$, where a , b and c are integers.

Solution
State the formula you are going to use.
 $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$
What does what you know.
Let $(x_1, y_1) = (0, -3)$.
Let $(x_2, y_2) = (5, 0)$.
Substitute the values into the formula.
 $\frac{y - (-3)}{0 - (-3)} = \frac{x - 0}{5 - 0}$
Simplify the equation by multiplying the numerator and denominator by 5.
 $\frac{y + 3}{3} = \frac{x}{5}$
Multiply both sides of the equation by 15.
 $5(y + 3) = 3x$
Simplify the left-hand side.
 $-3x + 5y = -15$
Expand the bracket.
 $-3x + 5y + 15 = 0$
Add 15 to both sides of the equation.
 $0 = -3x + 5y + 15$
Rearrange.
 $x - 3y + 15 = 0$

PROOF
By direct proof you have shown that $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$.

You might find it aids your understanding to make a quick sketch of this scenario.

TECHNOLOGY
You can also use a graphic calculator or graphing software package to check the answer. Plot the points (0, -3) and (5, 0). Draw a line between the two points and determine the equation of the line.

Proof boxes build awareness of how proof is integral to mathematics, preparing students well for further study

Technology boxes suggest how different technologies, such as graphing software and scientific calculators, can aid and deepen the study of mathematics

Sample pages from Edexcel A-level Mathematics

Online resources:

- **Easily access digital versions of the student books**, ideal for front of class teaching or for direct access by students in school or at home
- **Provide plenty of practice opportunities** with the online Practice Pack, a bank of end-of-chapter tests and exam-style practice papers written for the new specification with full mark schemes
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Collins ConnectFind out more about Collins Connect at www.connect.collins.co.uk

Title	ISBN	Price	Pub Date
Edexcel A-level Mathematics			
Year 1 and AS Student Book	978-0-00-820495-2	£27.99	Feb 2017
Year 2 Student Book	978-0-00-820496-9	£27.99	May 2017
Year 1 and AS Student Book:			
Online on Collins Connect (1 year sub)	978-0-00-820497-6	£250.00 (+VAT) 1yr	Sept 2017
Online on Collins Connect (3 year sub)	978-0-00-820498-3	£600.00 (+VAT) 3yr	Sept 2017
Year 2 Student Book:			
Online on Collins Connect (1 year sub)	978-0-00-820499-0	£250.00 (+VAT) 1yr	Sept 2017
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16+

AS/A

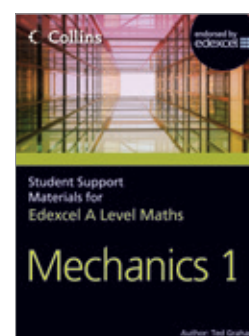
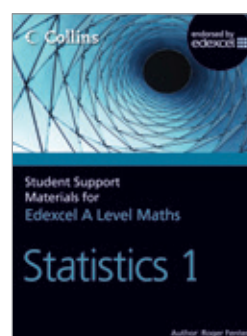
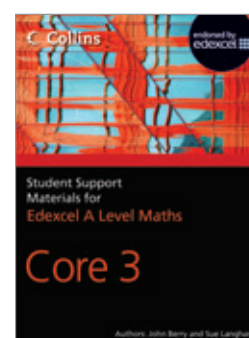
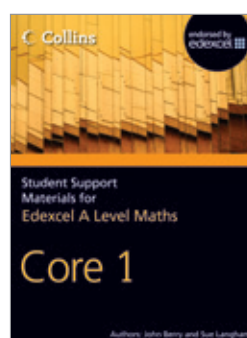
Final exam June 2018

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Authors: John Berry, Sue Langham, Roger Fentem and Ted Graham

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Edexcel International GCSE Maths

Age
14-16

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Authors: Chris Pearce and Isabel Marsden

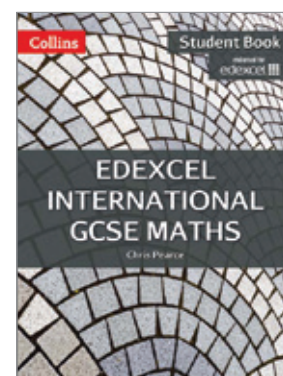
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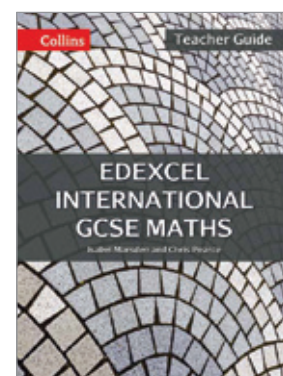
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The Teacher Guide has not been through the Edexcel endorsement process.

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NEW Student Book – Second Edition	978-0-00-820587-4	£24.99
NEW Teacher Guide – Second Edition	978-0-00-820586-7	£100.00

Collins Cambridge IGCSE® Maths

Age
14-16

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Second edition

Cambridge endorsed

Author: Chris Pearce

Provides in-depth coverage of every aspect of the latest Cambridge IGCSE® Mathematics syllabus for examination from 2015.

Student Book:

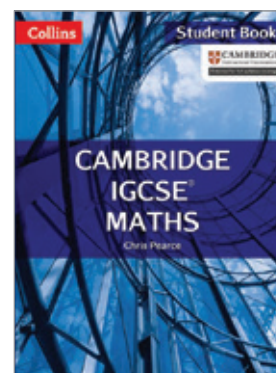
- Support and challenge students with the Core curriculum and Extended curriculum together in one book. This also aids transition from Core to Extended
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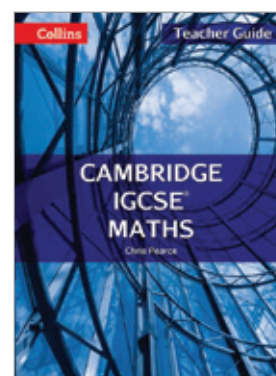
- Start teaching straight away with detailed three-part lesson plans that include clear syllabus references, common mistakes and remediation, and useful tips for a fresh approach
- Raise standards and set homework with extra sheets on the CD-ROM: consolidation questions to support less able students, extended questions to stretch high achievers and a homework sheet for every lesson

Online Resource: **Collins** Connect

- Move between the digital book and printed book easily with the page-for-page match shown in front of class view
- Assess progress at the end of each chapter with high-quality exam-style questions in Word format
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- Use mathematical vocabulary confidently with the digital glossary



This resource is endorsed by Cambridge International Examinations to support the full syllabus for examination from 2015.



The Teacher Guide has not been through the Cambridge endorsement process

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Student Book – Second Edition	978-0-00-815037-2	£24.99
Teacher Guide – Second Edition	978-0-00-815036-5	£100.00
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Title	ISBN	Schools' Price	Pub date
NEW Letts Cambridge IGCSE® Maths Revision Guide	978-0-00-821034-2	£3.50	Sept 17



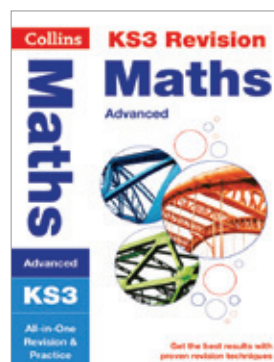
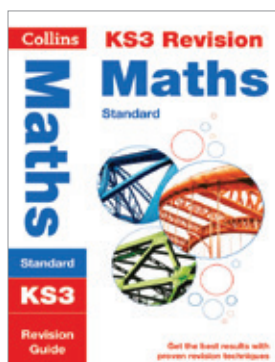
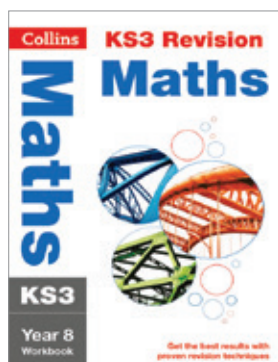
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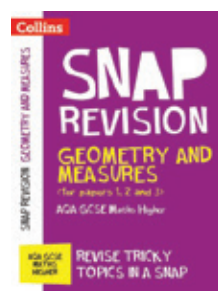
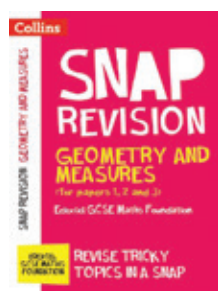
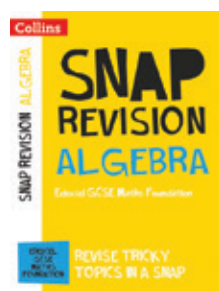
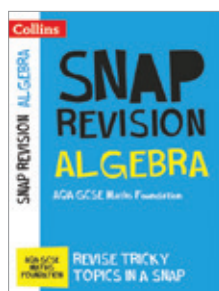
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Collins GCSE Revision and Practice

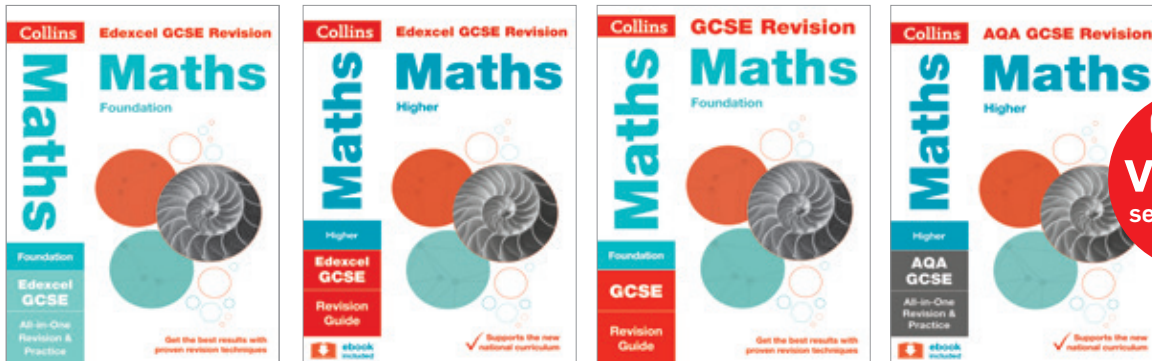
For AQA

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GCSE

Age 14-16



With clear and accessible explanations of all the essential GCSE content, the new Collins GCSE revision books provide lots of practice opportunities for each topic to improve exam performance. There are clear and concise revision notes, plus seven practice opportunities for every topic covered in the curriculum.

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Edexcel GCSE Maths Foundation Tier: All-in-One Revision and Practice	978-0-00-811249-3	£3.99
AQA GCSE Maths Higher Tier: All-in-One Revision and Practice	978-0-00-811250-9	£3.99
AQA GCSE Maths Foundation Tier: All-in-One Revision and Practice	978-0-00-811251-6	£3.99
GCSE Maths Higher Tier: All-in-One Revision and Practice	978-0-00-811252-3	£3.99
GCSE Maths Foundation Tier: All-in-One Revision and Practice	978-0-00-811254-7	£3.99
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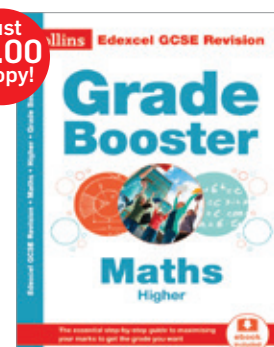
GCSE

Age 14-16

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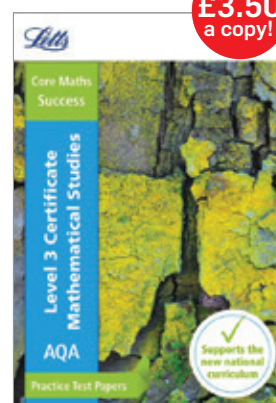
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