Collins

MATHS
2015

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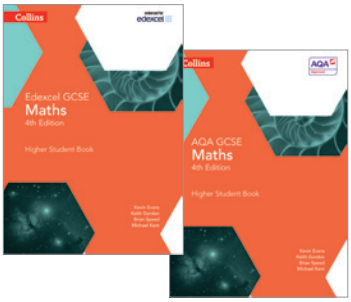
Collins

Welcome to the 2015 Maths Catalogue.

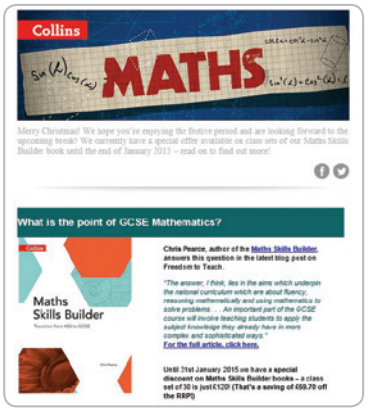
This year you'll find lots of useful information on our brand new resources for GCSE Maths, as well as textbooks and revision guides that comprehensively support KS3 and A-level students.

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?

Find out how we can support you in delivering the 2015 AQA and Edexcel specifications for GCSE Maths. Turn to page 6 for more information.



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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

Contents

Key icons in the catalogue

NEW — New titles

Age 14-16 — Age range

KS3 — For Key Stage...

GCSE — For GCSE

AS/A — For AS and A-level

Generic — Suitable for all exam boards

APP — For Assessing Pupils' Progress

FS — For Functional Skills

Current Specification
For the current GCSE specification.
Use for 2015 & 2016 examinations.

Digital resource available on Collins Connect online learning platform:

Collins Connect

Exam board specific:

OCR AQA Edexcel Cambridge

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Tweet us **@FreedomToTeach**

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

Age 11-16

Collins Connect

Collins Connect

Collins Connect is available for Collins Maths Frameworking and Collins GCSE Maths 4th edition.

Collins Connect is an innovative online learning platform designed to support teachers and students by providing a wealth of content and interactive activities – ideal as a front-of-class teaching and learning tool and to support independent learning and home/school links.

Collins Connect has been developed in consultation with schools as well as tested extensively to ensure it:

- **delivers what you need**
- **is intuitive and easy to use**
- **is straightforward to set-up**

Collins Connect is designed to:

Enable you to teach flexibly - use the suite of digital resources to engage your students

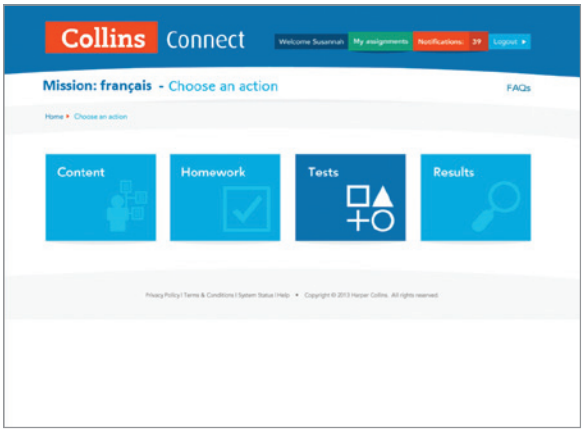
Be straightforward to set-up – get Collins Connect up and running quickly with no complicated installations or difficult passwords to remember

Make testing and reporting easy – Collins Connect syncs directly to Capita's SIMS so accounts are generated automatically for teachers and students and changes are updated daily

Work beautifully across all devices – Collins Connect works on all screen sizes from smart phones to whiteboards

Provide ongoing support – training videos and FAQs are available online for all customers. There's also a dedicated customer support team for set-up support, troubleshooting help and to ensure any issues can be quickly resolved

Provide course content and assessment all in one place – it's simple to set activities and homework directly from the platform. Assessments can also be set and completed and student data collated



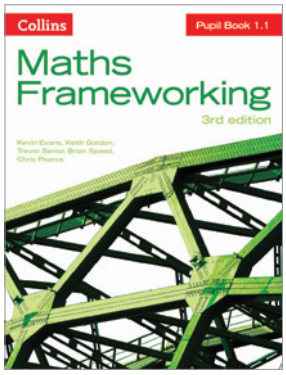
We know how important it is to you to ensure you have the right digital materials. All Collins Connect resources are available free of charge for a 14 day trial. Just go to education.support@harpercollins.co.uk for more information. You can also view sample chapters completely free online **http://connect.collins.co.uk/secondary-teaching-resources**

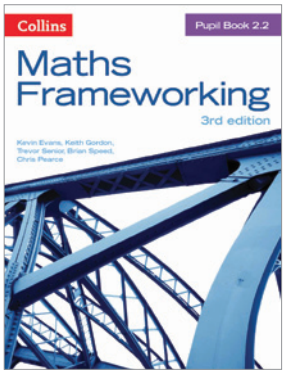
Looking for more digital resources?
iBooks Textbooks for GCSE Maths Revision and GCSE Maths Apps are available via the iBook Store.
See page 19 for more details.

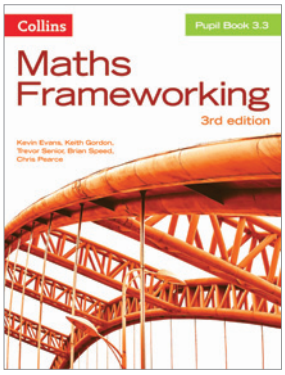
Collins Connect Age 11-14 KS3

Maths Frameworking 3rd edition

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

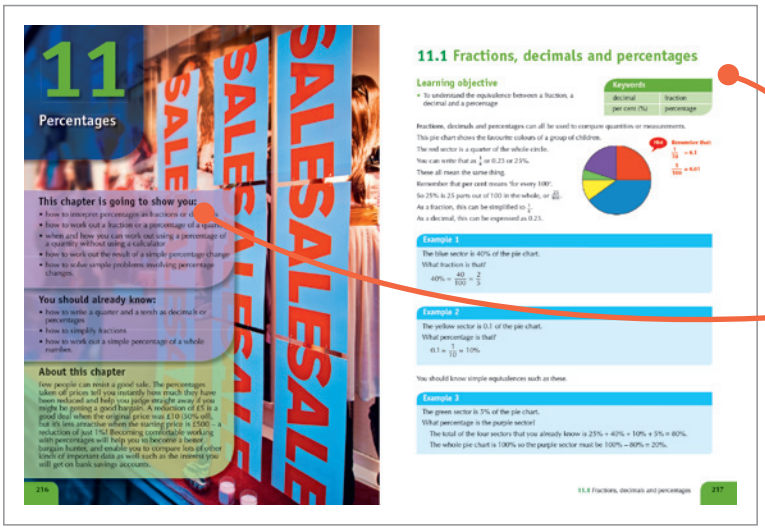






The right progression for all levels.

- 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

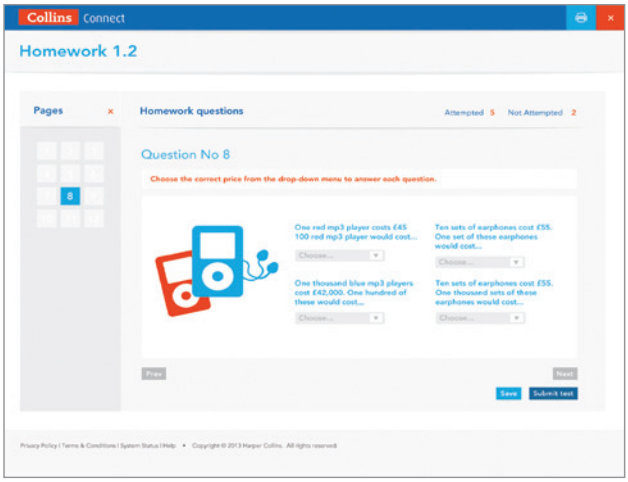
Age 11-14 KS3 Collins Connect

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.

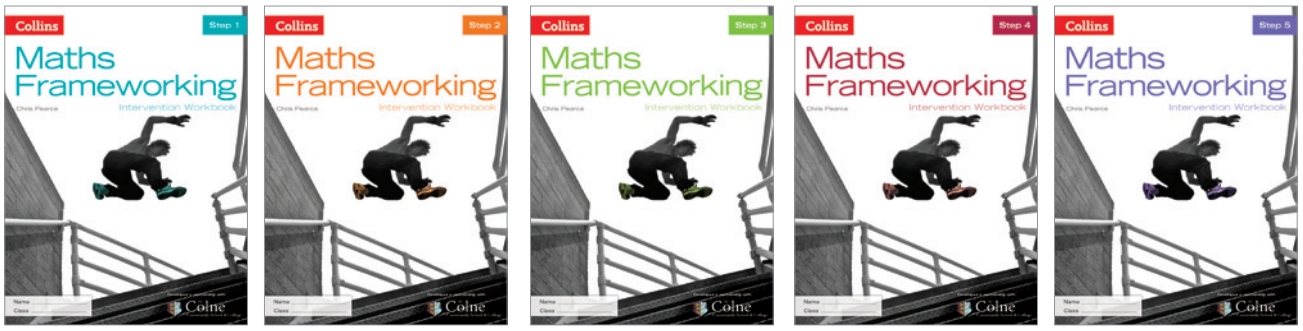
Digital resources for **Collins Maths Frameworking** have been carefully selected to improve and build on key skills in maths such as fluency, problem-solving, correcting common misconceptions, using the correct vocabulary, applying maths to real-life scenarios, and to encourage independent learning.

For more information on Collins Connect see page 2.
You can also view a free sample chapter online at **connect.collins.co.uk.secondary-teaching-resources**



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.

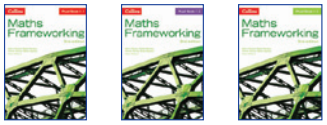
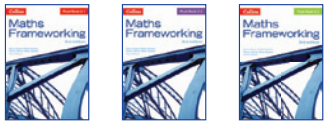
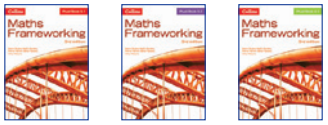
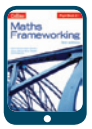
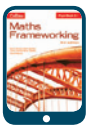
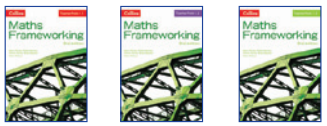
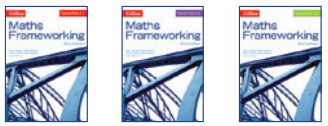
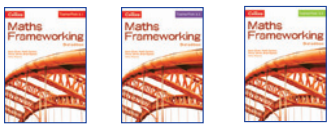
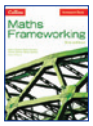
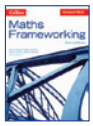
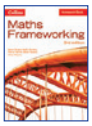


Level 8 Extension Workbooks

Brand new material written to support you in teaching and consolidating the skills needed to extend your gifted and talented pupils to achieve a Level 8.

- Build pupils' process skills with dedicated questions
- Consolidate pupils' learning and stretch your highest achievers with challenging questions
- Allow pupils to track their progress with colour-coded levels on the page

Collins Maths Frameworking: Available Resources

	Year 7	Year 8	Year 9
Pupil Books	 **Pupil Book 1.1** 978-0-00-753771-6 £15.99 **Pupil Book 1.2** 978-0-00-753772-3 £15.99 **Pupil Book 1.3** 978-0-00-753773-0 £15.99	 **Pupil Book 2.1** 978-0-00-753774-7 £15.99 **Pupil Book 2.2** 978-0-00-753775-4 £15.99 **Pupil Book 2.3** 978-0-00-753776-1 £15.99	 **Pupil Book 3.1** 978-0-00-753777-8 £15.99 **Pupil Book 3.2** 978-0-00-753778-5 £15.99 **Pupil Book 3.3** 978-0-00-753779-2 £15.99
Pupil Books (Print copy + online access to all 3 Pupil Books per year)*	Pupil Book 1.1 978-0-00-753771-6 or Pupil Book 1.2 978-0-00-753772-3 or Pupil Book 1.3 978-0-00-753773-0 + 1 year subscription to Pupil Books 1.1, 1.2, 1.3 978-0-00-756376-0 • £17.99 + 3 year subscription to Pupil Books 1.1,1.2,1.3 978-0-00-756375-3 • £20.99 	Pupil Book 2.1 978-0-00-753774-7 or Pupil Book 2.2 978-0-00-753775-4 or Pupil Book 2.3 978-0-00-753776-1 + 1 year subscription to Pupil Books 2.1, 2.2, 2.3 978-0-00-756384-5 • £17.99 + 3 year subscription to Pupil Books 2.1, 2.2, 2.3 978-0-00-756383-8 • £20.99 	Pupil Book 3.1 978-0-00-753777-8 or Pupil Book 3.2 978-0-00-753778-5 or Pupil Book 3.3 978-0-00-753779-2 + 1 year subscription to Pupil Books 3.1, 3.2, 3.3 978-0-00-756392-0 • £17.99 + 3 year subscription to Pupil Books 3.1, 3.2, 3.3 978-0-00-756391-3 • £20.99 
Pupil Books (Online access only to all 3 Pupil Books per year)*	1 year subscription to Pupil Books 1.1, 1.2, 1.3 978-0-00-756376-0 • £6.00 3 year subscription to Pupil Books 1.1,1.2,1.3 978-0-00-756375-3 • £15.99 	1 year subscription to Pupil Books 2.1, 2.2, 2.3 978-0-00-756384-5 • £6.00 3 year subscription to Pupil Books 2.1, 2.2, 2.3 978-0-00-756383-8 • £15.99 	1 year subscription to Pupil Books 3.1, 3.2, 3.3 978-0-00-756392-0 • £6.00 3 year subscription to Pupil Books 3.1, 3.2, 3.3 978-0-00-756391-3 • £15.99 
Teacher Packs	 **Teacher Pack 1.1** 978-0-00-753781-5 £100.00 **Teacher Pack 1.2** 978-0-00-753782-2 £100.00 **Teacher Pack 1.3** 978-0-00-753783-9 £100.00	 **Teacher Pack 2.1** 978-0-00-753784-6 £100.00 **Teacher Pack 2.2** 978-0-00-753785-3 £100.00 **Teacher Pack 2.3** 978-0-00-753786-0 £100.00	 **Teacher Pack 3.1** 978-0-00-753787-7 £100.00 **Teacher Pack 3.2** 978-0-00-753788-4 £100.00 **Teacher Pack 3.3** 978-0-00-753789-1 £100.00
Online Teacher Resource Powered by Collins Connect – including Interactive Book – tests and reporting – homework	**3 year subscription** 978-0-00-756373-9 • £700.00 **1 year subscription** 978-0-00-756374-6 • £250.00 	**3 year subscription** 978-0-00-756381-4 • £700.00 **1 year subscription** 978-0-00-756382-1 • £250.00 	**3 year subscription** 978-0-00-756389-0 • £700.00 **1 year subscription** 978-0-00-756390-6 • £250.00 
Homework Books	 **Level 1** 978-0-00-753763-1 £7.99	 **Level 2** 978-0-00-753764-8 £7.99	 **Level 3** 978-0-00-753765-5 £7.99
Maths Skills Builder	 **Maths Skills Builder** 978-0-00-753780-8 £5.99		
One-To-One Intervention Workbooks	 **Step 1** 978-0-00-753766-2 £5.99  **Step 2** 978-0-00-753767-9 £5.99  **Step 3** 978-0-00-753768-6 £5.99  **Step 4** 978-0-00-753769-3 £5.99  **Step 5** 978-0-00-753770-9 £5.99		

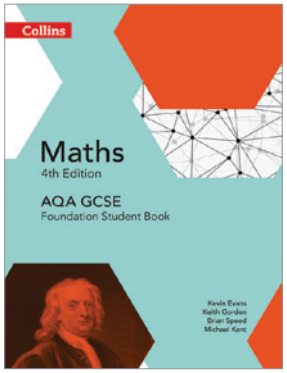
Subscriptions to the online Student Books are not available without a subscription to the Online Teacher Resource on Collins Connect. For full terms and conditions please visit **www.connect.collins.co.uk**

The Online Teacher Resource allows unlimited access for teachers and students to Collins Connect in school and enables the content to be used for front of class teaching, including whiteboard use. It does not allow access to the full reporting functionality or allow pupils to have individual log-ins. Individual pupil access must be purchased to access this.

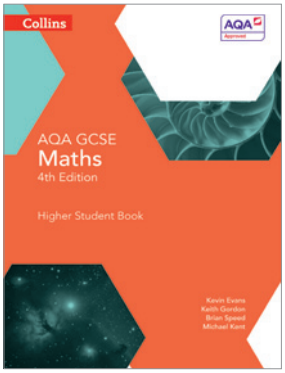
NEW GCSE FS Collins Connect Edexcel AQA

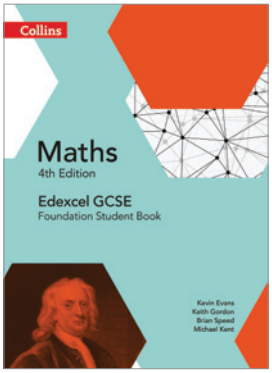
GCSE Maths, 4th edition for AQA and Edexcel

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

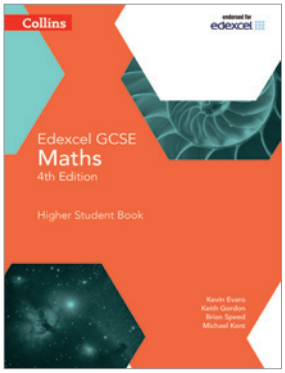


We have entered an approval process with AQA for endorsement of the Foundation Student Book.





We are working with Edexcel to gain endorsement of the Foundation Student Book.



Your whole class will need frequent practice in problem-solving and reasoning skills to succeed in the new, more demanding GCSE Maths exam.

Our resources provide exactly that, for students at every level.

And we've done it in the most easily accessible way.

GCSE Maths is changing, and 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 Booster Workbook to provide additional practice for Foundation tier students, plus hundreds of differentiated questions in the Student Books.
- **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 all of 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 prepare students for final assessment with exam-style question papers.

For full details please see the order form and component chart

GCSE Maths, 4th edition for AQA and Edexcel

Comprehensive materials support teachers and students through the substantial changes to the GCSE specification.

Student Books:

- Fully revised and updated for the new GCSE specifications for AQA and Edexcel
- Written by experienced teachers and expert authors
- Focused on fluency, mathematical reasoning and problem solving skills

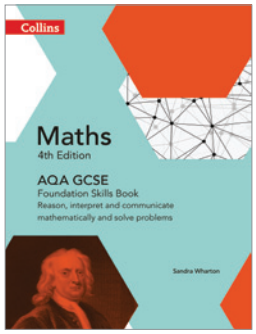
Teacher Packs:

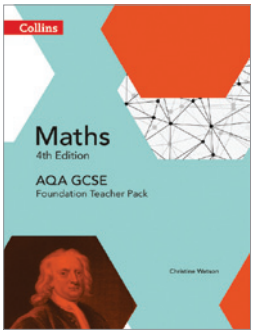
- Help students achieve a smooth transition from KS3 to GCSE with carefully structured lessons and thorough explanations of the assessment objectives
- Plan ahead with detailed, practical schemes of work for 2,3 and 5 year teaching
- Extra teacher support on more challenging topics

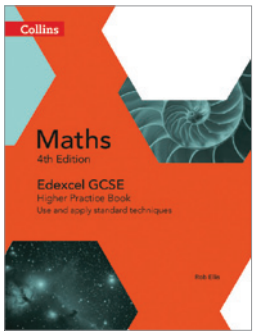
Practice Books:

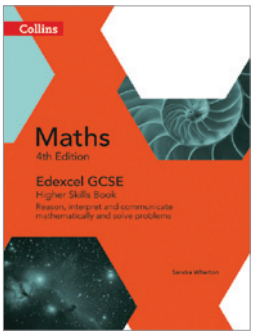
Available for both tiers, the Practice Books are designed to support students in mastering Assessment Objective AO1 - using and applying standard techniques. They are ideal for use both in the classroom or as a homework resource.

- 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









Skills Books:

Available for both Foundation and Higher tier, the Skills Books support students in mastering 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

Booster Workbooks:

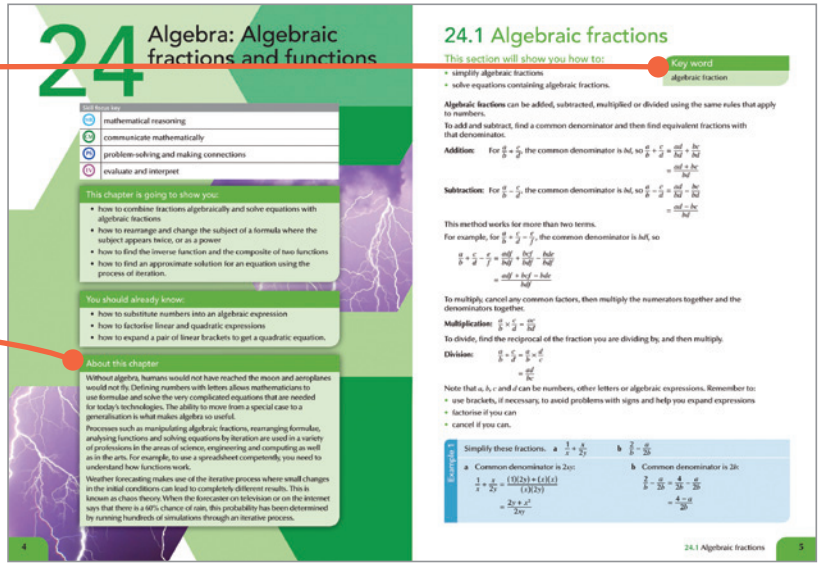
Available for Foundation tier, this write-in Booster Workbook provides more practice for those students who require additional support.

- 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 sample pages

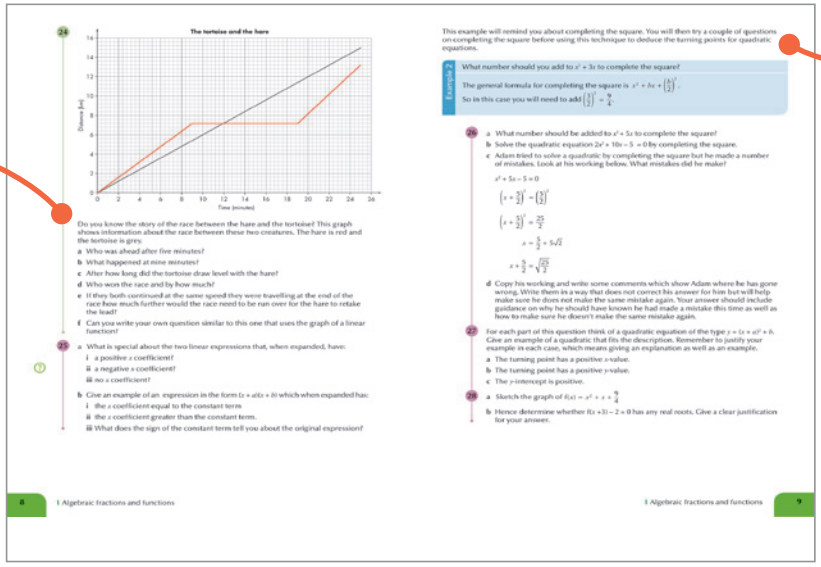
Focus on literacy skills with key words per topic

Bring awe and wonder with a chapter opener that puts the maths in context.



Sample pages from *Maths 4th Edition GCSE Higher Student Book*

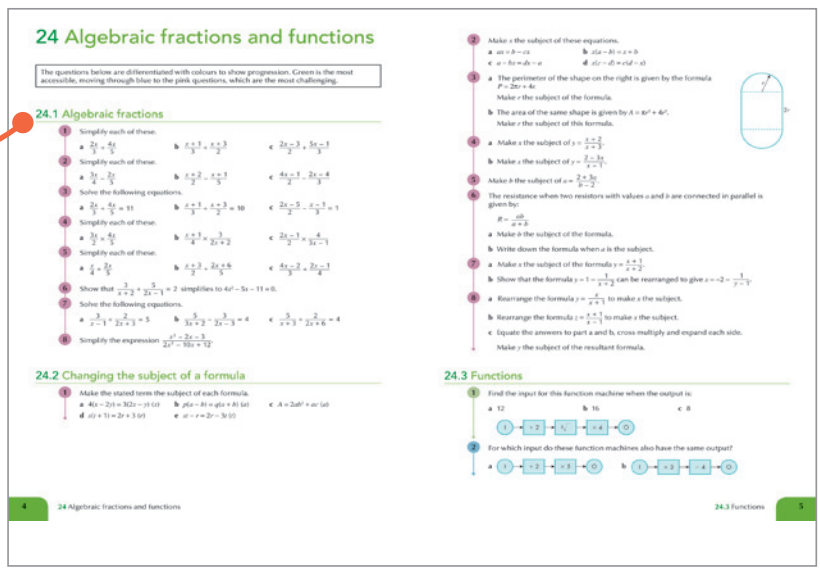
Longer questions can be tried in class to generate discussions



New questions require students to think and analyse their work encouraging independence

Sample pages from *Maths 4th Edition GCSE Higher Skills Book*

Ensure your pupils feel confident and competent with hundreds of basic, differentiated practice questions



Sample pages from *Maths 4th Edition GCSE Higher Practice Book*

Collins Connect NEW

GCSE Maths 4th edition on Collins Connect

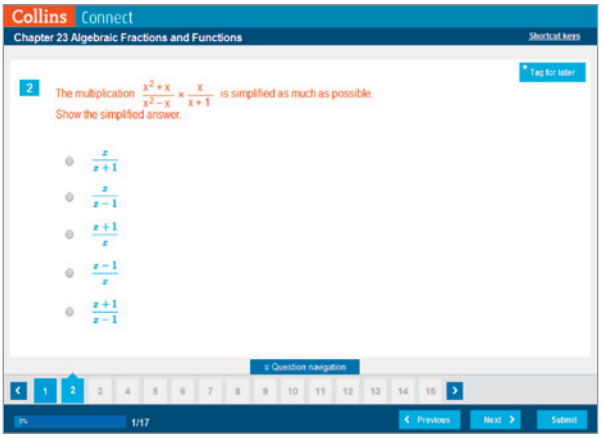
Collins GCSE Maths 4th edition is supported by Collins Connect.

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

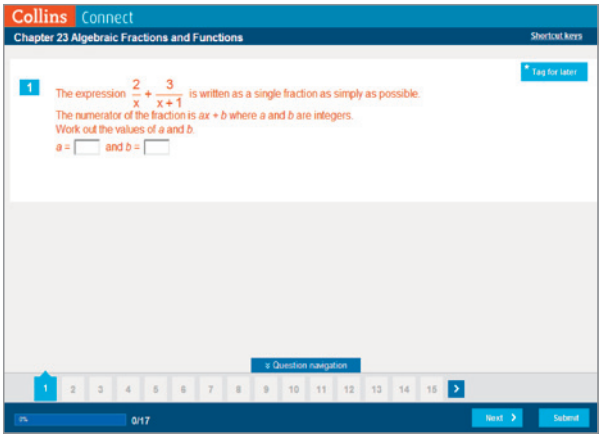
Powered by an innovative online learning platform, Collins Connect makes GCSE Maths content available at home and at school, meaning it's ideal for use as a front-of-class teaching tool and as a way to set homework and tests.

Digital resources for **Collins GCSE Maths** are designed to improve and build on key skills in maths such as fluency, problem-solving, correcting common misconceptions, using the correct vocabulary and applying maths to real-life scenarios.

Collins Connect also contains automarked questions to help students check their progress and understanding of topics.



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



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We also have a free sample chapter available to view online, simply visit:
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Collins Connect resources, Teacher Packs and the Maths Skills Builder are not being entered into the AQA approval process or the Edexcel endorsement process.

GCSE Maths 4th edition components

For AQA

Student Books	 Foundation 978-0-00-759743-7 Mar 2015 • £19.99	 Higher 978-0-00-759734-5 Jan 2015 • £19.99
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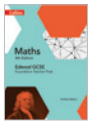
Teacher Packs	 Foundation 978-0-00-811394-0 Apr 2015 • £100	 Higher 978-0-00-811393-3 Feb 2015 • £100
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The prices quoted here are for individual components. Our sales consultants are always happy to discuss your requirements and find a package that suits your needs, including exclusively digital solutions.

Subscriptions to the online Student Books are not available without a subscription to the Collins Connect package. 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. It does not allow access to the full reporting functionality or allow students to have individual log-ins. Individual student access must be purchased to access this.

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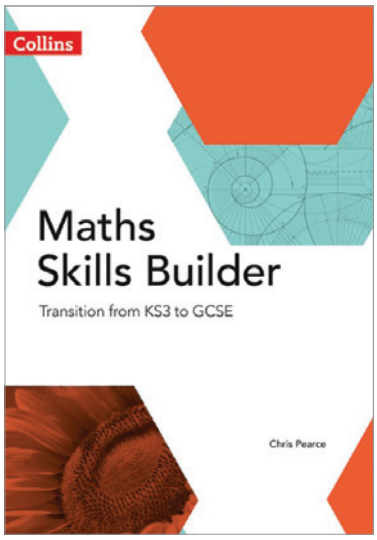
KS3 KS4 GCSE Age 14-16 OUT NOW!

Maths Skills Builder

Extra support for a smooth transition from KS3 to GCSE

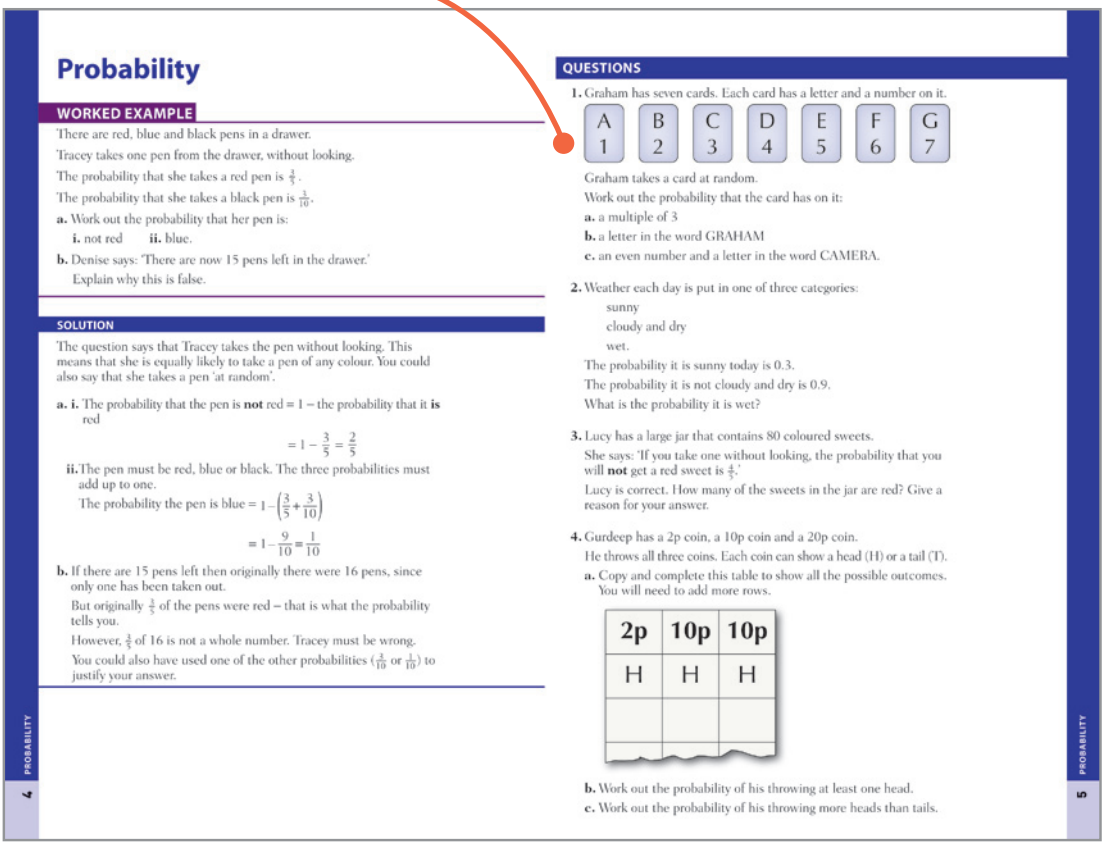
Author: **Chris Pearce**



- **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

Help pupils to make connections across maths with plenty of mixed questions



Probability

WORKED EXAMPLE

There are red, blue and black pens in a drawer.
Tracey takes one pen from the drawer, without looking.
The probability that she takes a red pen is $\frac{2}{5}$.
The probability that she takes a black pen is $\frac{3}{10}$.

a. Work out the probability that her pen is:
i. not red **ii.** blue.

b. Denise says: 'There are now 15 pens left in the drawer.'
Explain why this is false.

SOLUTION

The question says that Tracey takes the pen without looking. This means that she is equally likely to take a pen of any colour. You could also say that she takes a pen 'at random'.

a. i. The probability that the pen is **not** red = 1 – the probability that it **is** red

$$= 1 - \frac{3}{5} = \frac{2}{5}$$

ii. The pen must be red, blue or black. The three probabilities must add up to one.
The probability the pen is blue $= 1 - \left(\frac{3}{5} + \frac{3}{10}\right)$

$$= 1 - \frac{9}{10} = \frac{1}{10}$$

b. If there are 15 pens left then originally there were 16 pens, since only one has been taken out.
But originally $\frac{3}{5}$ of the pens were red – that is what the probability tells you.
However, $\frac{3}{5}$ of 16 is not a whole number. Tracey must be wrong.
You could also have used one of the other probabilities ($\frac{2}{10}$ or $\frac{1}{10}$) to justify your answer.

4 PROBABILITY

QUESTIONS

1. Graham has seven cards. Each card has a letter and a number on it.

A	B	C	D	E	F	G
1	2	3	4	5	6	7

Graham takes a card at random.
Work out the probability that the card has on it:
a. a multiple of 3
b. a letter in the word GRAHAM
c. an even number and a letter in the word CAMERA.

2. Weather each day is put in one of three categories:
sunny
cloudy and dry
wet.
The probability it is sunny today is 0.3.
The probability it is not cloudy and dry is 0.9.
What is the probability it is wet?

3. Lucy has a large jar that contains 80 coloured sweets.
She says: 'If you take one without looking, the probability that you will **not** get a red sweet is $\frac{4}{7}$.'
Lucy is correct. How many of the sweets in the jar are red? Give a reason for your answer.

4. Gurdeep has a 2p coin, a 10p coin and a 20p coin.
He throws all three coins. Each coin can show a head (H) or a tail (T).
a. Copy and complete this table to show all the possible outcomes. You will need to add more rows.

2p	10p	10p
H	H	H

b. Work out the probability of his throwing at least one head.
c. Work out the probability of his throwing more heads than tails.

5 PROBABILITY

Sample pages from *Maths Skills Builder*

Age 14-16 | Generic | Current Specification

New GCSE Maths – Multistep and Problem Solving Skills

- **Help students at all levels improve their problem solving skills,** with dedicated practice for Number, Algebra, Geometry, Measures, Probability and Statistics
- **Provide practice on 4/5 mark questions** testing Assessment Objectives AO2 and AO3
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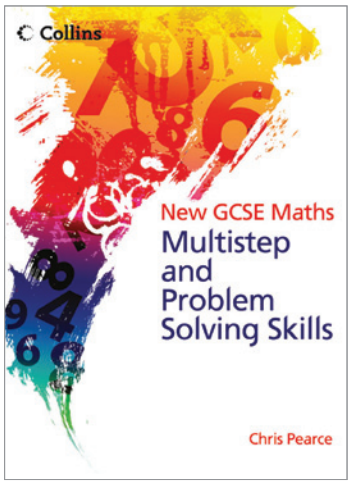

Title	ISBN	Price
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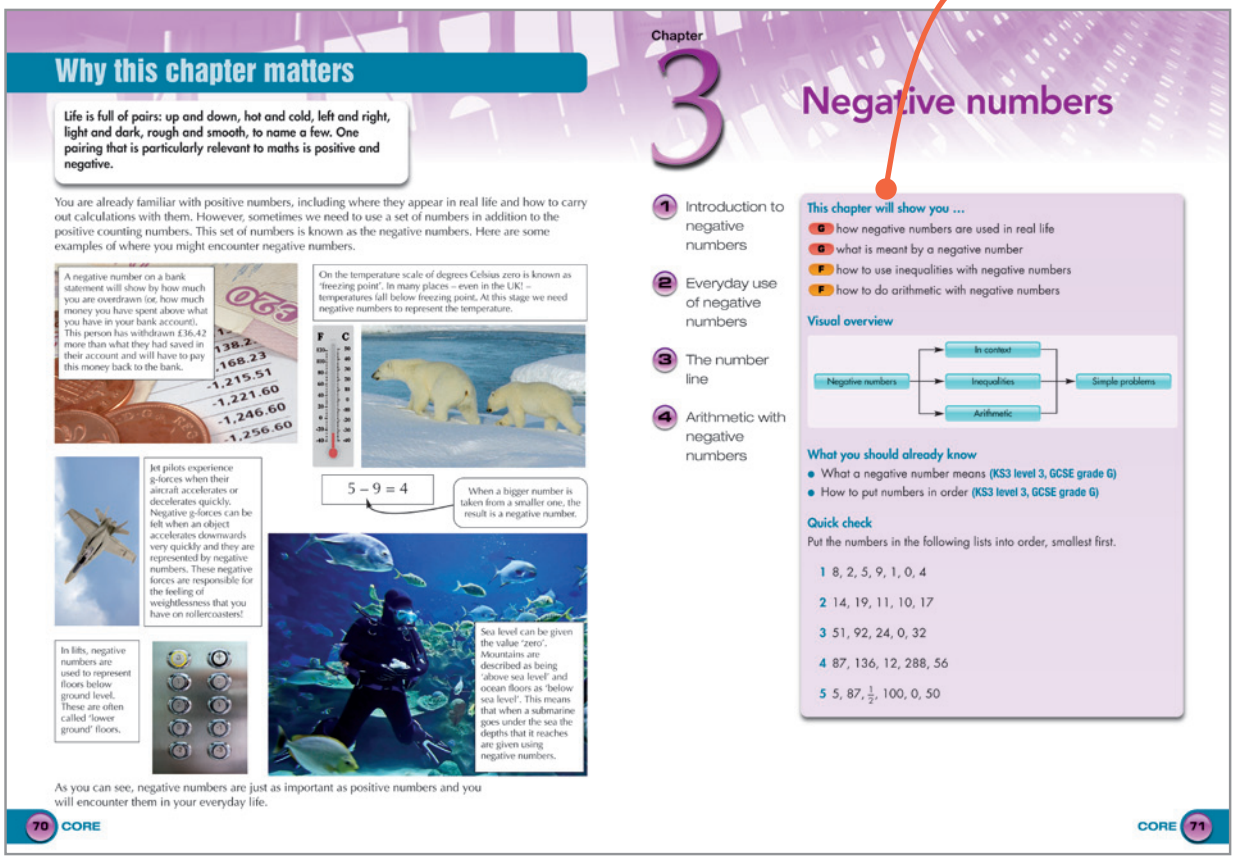
Gain problem-solving strategies with the student-friendly, concise introduction and explanations

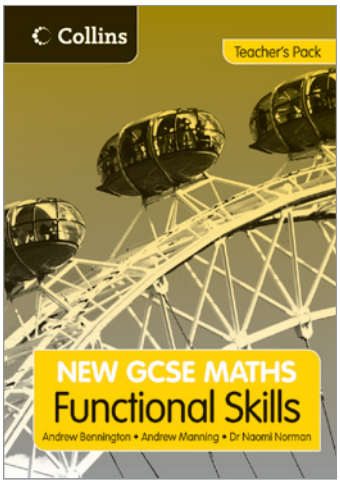


Sample pages from *New GCSE Maths – Multistep and Problem Solving Skills*

Current Specification GCSE Age 14-16

Functional Skills

Authors: **Andrew Bennington, Andrew Manning and Dr Naomi Norman**



Engage students in functional skills with this dedicated Student Book and Teacher Pack.

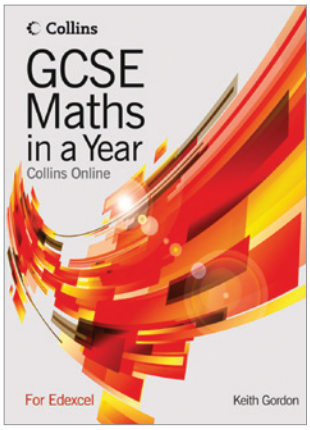
Forty exciting tasks to integrate into your GCSE lessons alongside helpful guidance and support to ensure you can get the most from the activities.

For pricing information please refer to the order form

Current Specification Collins Connect Age 14+

GCSE Maths in a Year

Motivate your 16+ students taking GCSE Mathematics in a year with this interactive, online resource



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Available in fully interactive Collins Connect editions, it offers comprehensive guidance and support for all essential GCSE Mathematics topics – anytime, anywhere.

- Hone technique with exam-style questions prepare your students with up-to-date practice papers and mark schemes
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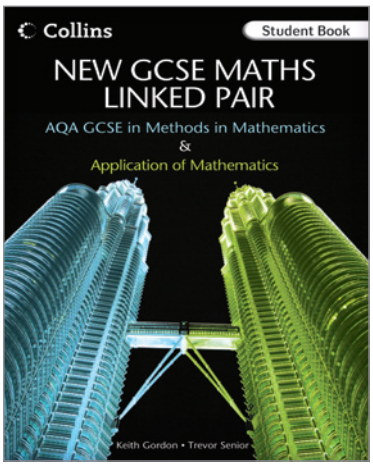
Title	ISBN	Price
GCSE Maths in a Year	978-0-00-752041-1	£250.00 + VAT

Age 14-16 GCSE AQA Current Specification

New GCSE Maths Linked Pair

Authors: **Keith Gordon and Trevor Senior**



Support students completing the GCSE Maths Linked Pair qualification with this dedicated resource.

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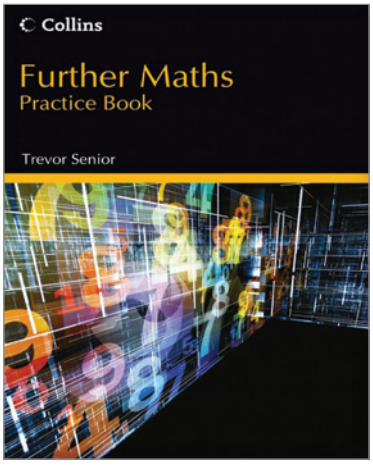
Age 14-16 AQA

AQA Level 2 Certificate in Further Mathematics

Author: **Trevor Senior**



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- Support your students to progress towards the A* with Distinction grade with challenging problem-solving and exam-style questions
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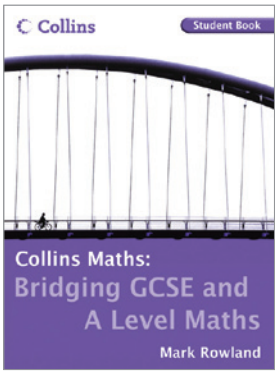
Current Specification OCR AQA Edexcel AS/A Age 16+

Bridging GCSE and A-level Maths

Author: **Mark Rowland**



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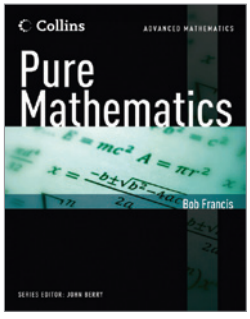
Collins Advanced Mathematics



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Age 16+ AS/A Edexcel

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

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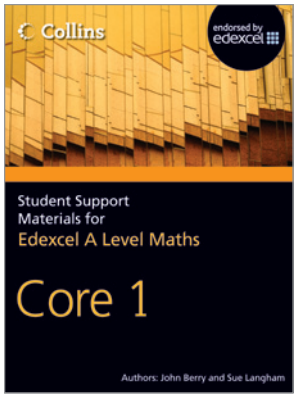

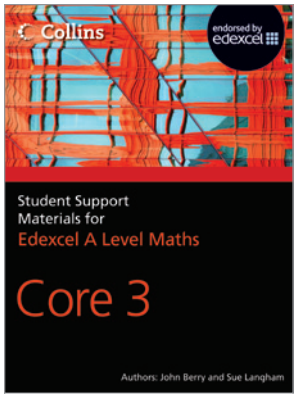

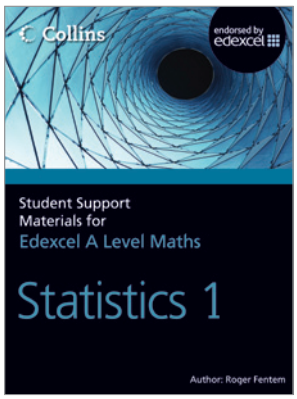

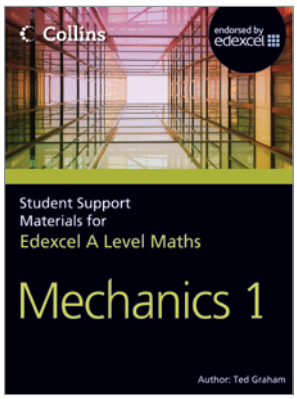

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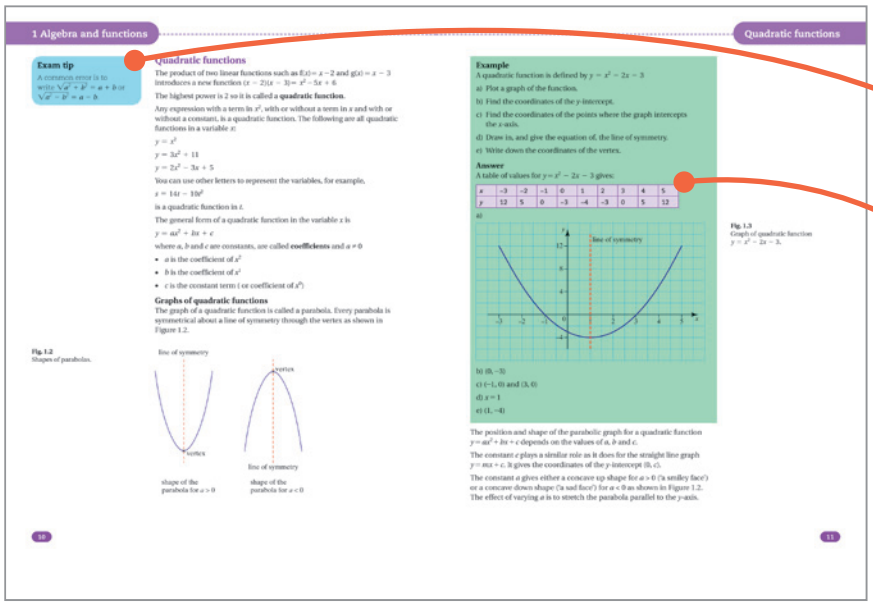

Avoid common misconceptions and errors with exam tips

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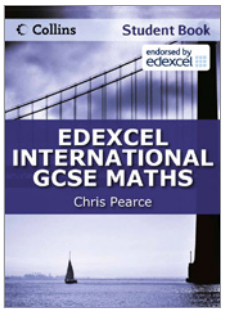
Sample pages from *Collins Student Support Materials for Edexcel A Level Maths*

Collins Cambridge IGCSE® Maths and Edexcel International GCSE Maths

Authors: **Chris Pearce, Isabel Marsden and Jim Newall**

Supporting you to deliver high quality and engaging Cambridge IGCSE® and Edexcel International GCSE lessons



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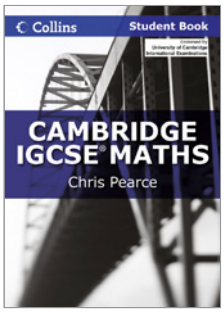

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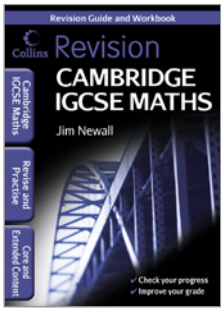

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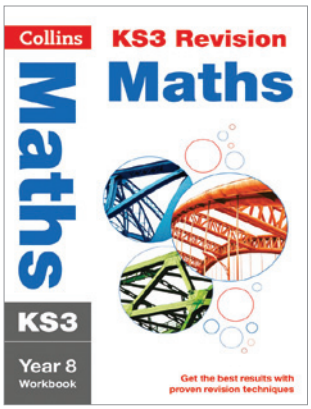

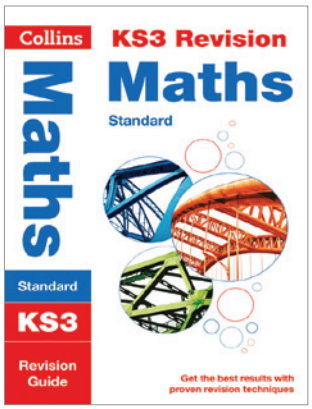

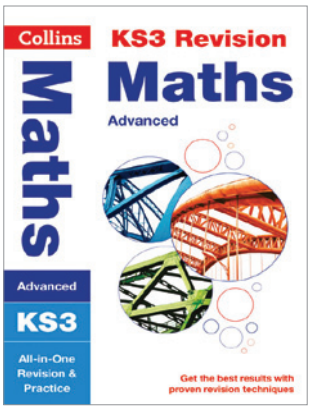

Title	ISBN	Schools' Price	RRP
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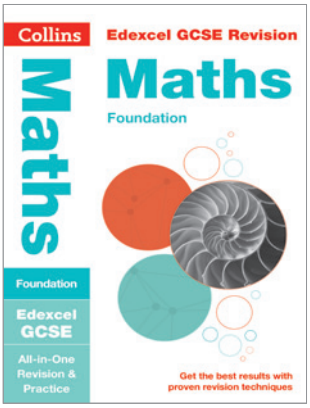

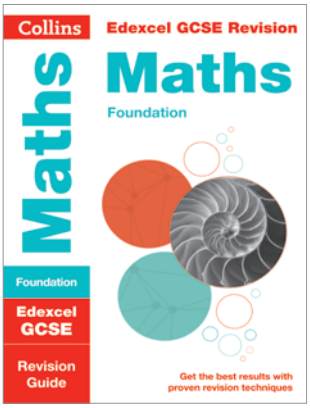

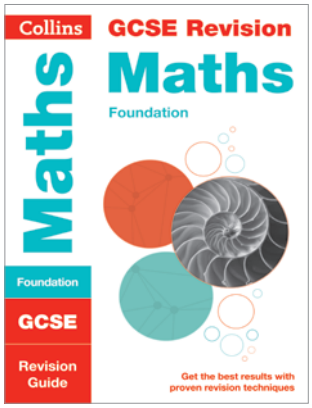

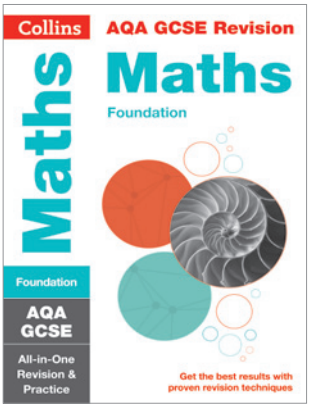

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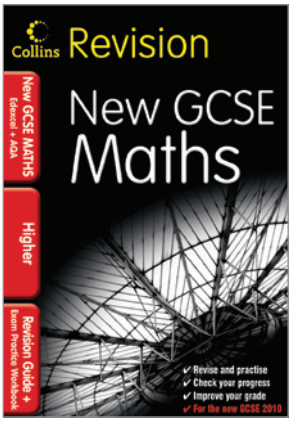

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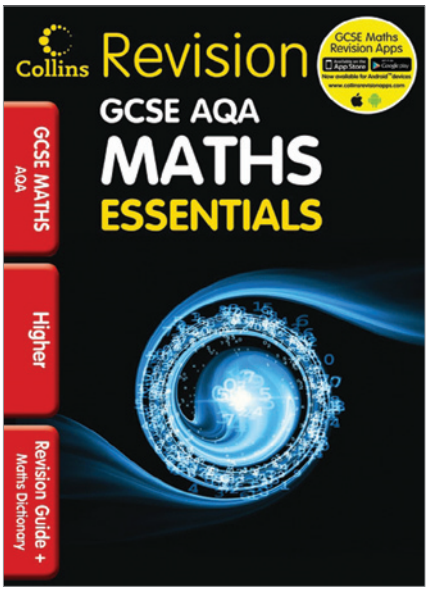

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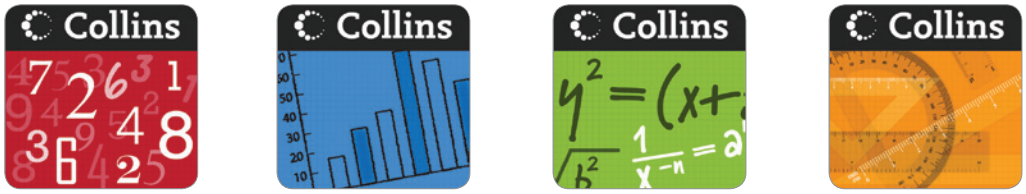

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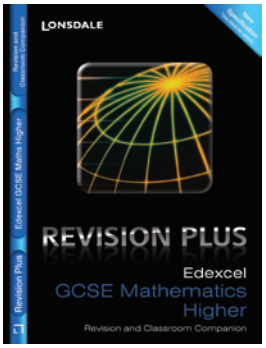

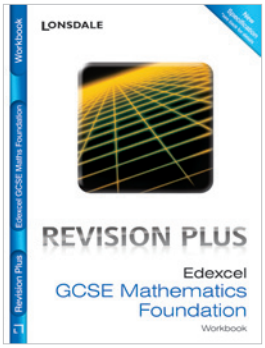

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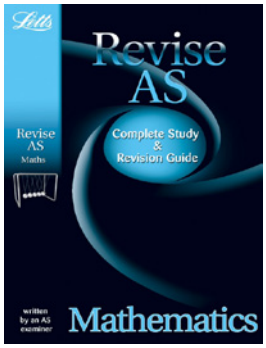

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