

# SCIENCE 2015

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# **Collins**

# Welcome to the 2015 Science 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 of the exciting new publishing and features available from Collins.

Want to take a closer look? If you would like 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 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 A-level AQA specifications for science.

Turn to page 18 for more information.



# Bring learning to life with Collins Connect

Our online platform provides course content and assessment all in one place and offers a suite of digital resources to engage your students and make testing and reporting easy.



# Sign up for our e-newsletter

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

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



# Find out more

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



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# Key icons used in the catalogue



New titles



Age range



For Key Stage 3



For GCSE



For AS and A-level

## **Current Specification**

For the current A-level specification. Use for 2015 & 2016 examinations.

Available on the new online learning platform Collins Connect:

## Collins Connect

Exam board specific:

OCR AQA Edexcel Cambridge

# Keep up to date!

Find out about new books and teacher support, offers, education news, competitions and free resources.



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Find Collins Secondary on Facebook



Subscribe to the Collins Ed YouTube channel



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

www.collins.co.uk



<sup>®</sup>IGCSE is the registered trademark of Cambridge International Examinations.





# **Collins Connect**

Teach science flexibly with Collins Connect, an innovative online teaching and learning platform that brings science to life.

Designed to support teachers to manage homework setting and assessments while providing a wealth of content and interactive activities, Collins Connect is ideal as a front-of-class learning tool and to support independent learning outside lessons.

- Teach science flexibly with online access to resources on whiteboards, computers, tablets and smart phones
- Assign work to individuals or the whole class via your VLE or by email in just a few clicks, and receive feedback from students to help identify strengths and weaknesses
- 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





Sample from Collins Key Stage 3 Science, Student Book 1

Sample from Collins Connect Teacher Homepage

# **Collins Key Stage 3 Science on Collins Connect**

#### **Engaging lessons:**

- Deliver exciting lessons with video and interactive activities that explain difficult concepts and bring science to life
- Naked Scientist animations answer real science questions and videos show science in the real world
- Engaging starter questions help get students thinking at the start of every lesson

## **Homework:**

- Help students consolidate and extend what they have learned in class with interesting and varied online homework tasks that allow them to work at their own pace
- Homework activities available for every lesson







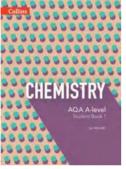
#### **Assessment:**

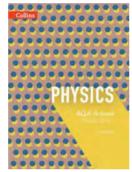
- Flexible assessment is provided by differentiated tests
- Save time with an auto-mark option on quick tests
- Gain a deeper understanding of student progress with end of topic assessments, which enable students to practice GCSE-style questions
- Set tasks for the whole class or individuals and personalise learning based on strengths and weaknesses captured by the Collins Connect feedback tools
- Generate reports quickly and easily



Samples from Collins Key Stage 3 Science.







# A-level Science for AQA on Collins Connect

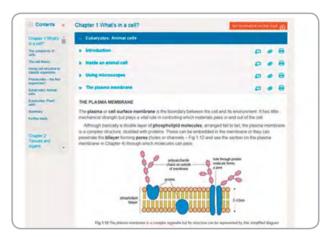
We're developing new digital resources to support the 2015 AQA A-level specification.

To find out more visit www.collins.co.uk/AQAAlevelresources

# **Collins Advanced Science on Collins Connect**

Collins Connect supports you and your students by providing further opportunities for assessment and home learning:

- Provide total fluidity between online and offline learning with online content that mirrors that of the Student Book
- Encourage self-study with a further study option available for each topic
- Quickly create and assign homework based on the lesson content in just a few clicks



Samples from CAS Biology on Collins Connect.



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# Collins KS3 Science







## **Second Edition**

Series Editor: Ed Walsh

Authors: Sarah Askey, Tracey Baxter, Sunetra Berry, Pat Dower, Anne Pilling

and Pete Robinson

Collins Key Stage 3 Science, Second Edition has been fully revised to match the 2014 curriculum and designed to help students secure the key skills, knowledge and interest in science to succeed at KS3 and beyond.







- Ensure progression throughout the key stage with an in-depth scheme of work that supports you in delivering inspiring lessons
- Provide flexibility with a 2 and 3 year route through the course, whether you need more time to cover the new content or prefer to cover KS3 in 2 years before moving on to GCSE preparation
- Monitor your students' progress with assessment embedded throughout the course, which helps you check students' understanding of key concepts at the end of each unit and each topic
- Support students to develop the skills required for GCSE success with thinking scientifically, working scientifically and learner development integrated into the learning activities, objectives and outcomes of each lesson
- Develop skills for further study with questions designed to build students' ability to write longer answers, a key factor in GCSE success

- Engage student of all levels with clearly differentiated material, meaning the books are suitable for use with mixed ability classes
- Save time and cover the 2014 curriculum with confidence with ready-made editable lesson plans, differentiated written worksheets and practical science worksheets with accompanying technician's notes, all of which can be easily adapted to suit your needs and make planning easier
- Embed progression with links to prior learning to help students build on what they already know
- Consolidate learning with interesting and varied homework activities that are designed to help students reinforce and extend what they've learned in class
- Bring science to life with interactive activities, videos and guizzes on Collins Connect
- Save time with auto-marked online science homework available for every lesson through Collins Connect

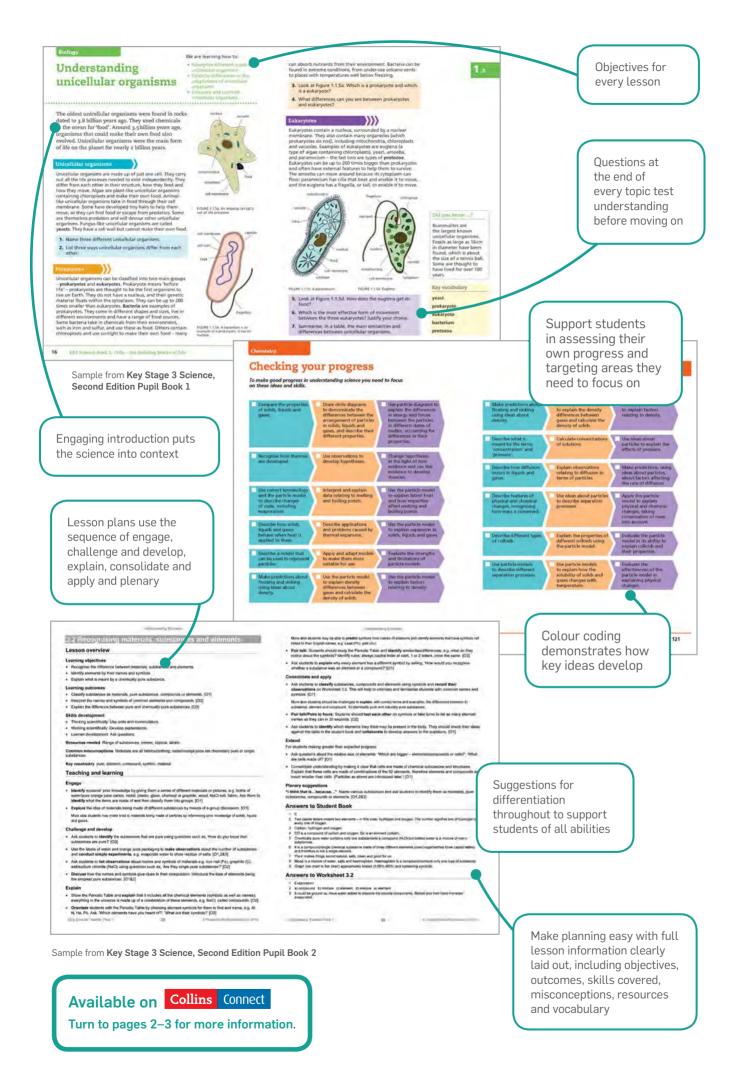


Want to hear more? Visit **www.collins.co.uk/KS3Science** and see what series editor Ed Walsh has to say about assessment and the new programme of study in our video series.









www.collins.co.uk

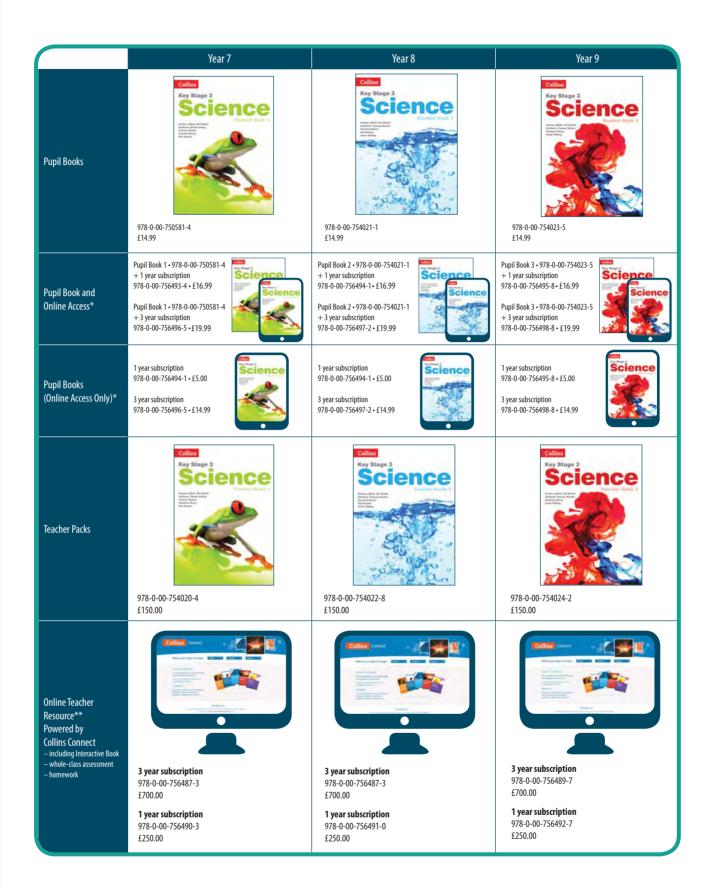


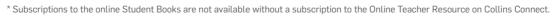




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<sup>\*\*</sup> The Online Teacher Resource allows unlimited access for teachers and students to the online content in school and enables the resources to be used for front of class teaching, including whiteboard use. It does not allow access to the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

Full terms and conditions can be found online at www.connect.collins.co.uk

Prices are correct at the time of going to press. Collins reserve the right to change prices without notice. Prices are listed here without VAT. VAT is applicable to software and digital subscriptions and is applied at the current rate.



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# **Skills for Science**

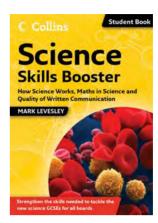


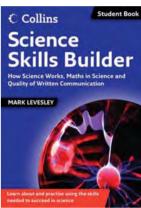


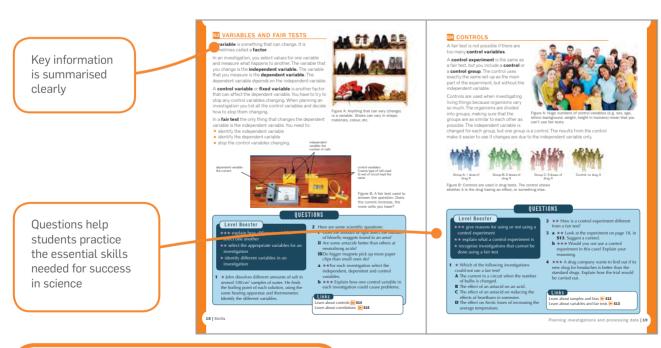
Author: Mark Levesley

Build the skills needed to succeed in GCSE Science throughout KS3 and KS4 with these books focusing on How Science Works, Maths in Science and Quality of Written Communication.

- Use the Skills Booster to develop 50 core skills taken from the 2011 GCSE specifications with clear, fully illustrated explanations so students can really get to grips with the areas they find difficult
- Develop key skills at KS3 using the Skills Builder with a clear explanation
  of each skill, examples, illustrations and dedicated practice questions to test
  understanding. The KS3 Builder is also ideal for your KS4 students that need
  support to develop the basic skills required at GCSE
- Support independent study at KS4 with easy cross references so that students can look up the skills needed to answer questions they are struggling with, or can find questions to practice their weaker skills
- Prepare students for writing longer answers with dedicated questions for each activity, booster boxes giving hints and detailed worked examples of good and bad responses
- Encourage self and peer assessment with detailed answers provided in the back of the book
- Set activities in class, as homework or for lesson cover to suit individual students or classes with clear, comprehensive matching charts







 KS3 Science – Skills Builder
 978-0-00-745725-0
 £5.99

 GCSE Science – Skills Booster
 978-0-00-745730-4
 £5.99

Sample from Skills for Science Booster Book

www.collins.co.uk











# Collins New GCSE Science

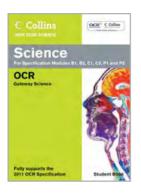
Series Editors: Gurinder Chadha, Ken Gadd, Chris Sherry, Ed Walsh

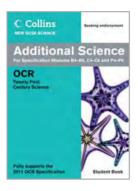
OCR AQA Edexcel

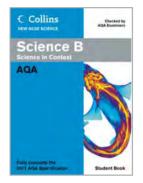




Deliver the 2011 specifications with confidence using our flexible one-book-peryear solution that supports you and your students to get the best results.









- Deliver the 2011 specifications with ease the Science, Additional Science and Separate Science components build on each other so your department can buy as needed and use them with all students taking different GCSE science routes
- Reduce planning time our student books, teacher packs, homework activities, interactive books and assessment package are fully integrated and matched to our scheme of work so you can get started straight away
- Ensure achievement for every student differentiated student book content, lesson plans and worksheets enable you to plan for and teach students of different abilities, with engaging, accessible student books and extension activities on every topic

- Improve exam performance and results
  - Controlled Assessment practice and advice and graded exam-style questions and worked examples requiring Quality of Written Communication build these key skills to help your students get better grades
- Engage students in learning interesting facts and photos, exciting interactive resources, activities based on Ben Goldacre's Bad Science, How Science Works, Maths, ICT and practical work are embedded throughout the scheme
- **Teach with confidence** with comprehensive resources matched to our Scheme of Work and supported by detailed lesson plans, worksheets, ideas for practicals with full technician's notes and admin support



Sample from OCR Gateway Science

Avoid common misconceptions with 'Remember!' boxes

Explore science while fully covering your specification, with clearly differentiated content

Find out more information easily using specific internet search terms provided on every page

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# Collins New GCSE Science Components

#### **OCR Gateway OCR Twenty First Century** AQA Edexcel Science 978-0-00-741514-4 978-0-00-741537-3 978-0-00-741528-1 £14.99 £14.99 £14.99 Student Books Additional Science Additional Science Additional Science 978-0-00-741531-1 978-0-00-741508-3 978-0-00-741522-9 Science A £14.99 £14.99 978-0-00-741462-8 £14.99 Science B 978-0-00-741466-6 £14.99 **Additional Science** 978-0-00-741456-7 £14.99 Separate Sciences Separate Sciences Separate Sciences 978-0-00-741534-2 978-0-00-741525-0 978-0-00-741511-3 Separate Sciences £14.99 £14 99 £14 99 978-0-00-741459-8 £14.99 Skills Booster Books Skills Booster Book 978-0-00-745730-4 Skills Builder Book 978-0-00-745725-0 Science Science Science 978-0-00-741538-0 978-0-00-741529-8 978-0-00-741515-1 £150 + VAT £150 + VAT £150 + VAT **Feacher's Pack** Additional Science Additional Science Additional Science 978-0-00-741532-8 978-0-00-741523-6 978-0-00-741509-0 **Science A** 978-0-00-741463-5 £150 + VAT £150 + VAT £150 + VAT £150 + VAT978-0-00-741467-3 £150 + VAT Additional Science Separate Sciences Separate Sciences Separate Sciences 978-0-00-741457-4 £150 + VAT **Separate Sciences** 978-0-00-741460-4 £150 + VAT 978-0-00-741535-9 978-0-00-741526-7 978-0-00-741512-0 £150 + VAT £150 + VAT £150 + VAT Science (OCR Gateway and **OCR Twenty First Century)** Additional Science Separate Sciences 978-0-00-743953-9 £525.00 + VAT 978-0-00-741540-3 £525.00 + VAT 978-0-00-741542-7 £525.00 + VAT Science (AQA and Edexcel) 978-0-00-743952-2 £525.00 + VAT



Science 978-0-00-741536-6 £260 + VAT

978-0-00-741543-4 £225 + VAT

Additional Science 978-0-00-741530-4 £260 ± VAT Separate Sciences 978-0-00-741533-5 £260 + VAT

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Science

For OCR Gateway, OCR Twenty First Century, AQA and Edexcel

Additional Science 978-0-00-741539-7 £225 + VAT Separate Sciences 978-0-00-741541-0 £225 + VAT

# Free online at www.collins.co.uk/SecondaryScience

Sample pages

Collins Secondary Science 2015\_1.indd 9

- Schemes of Work
- Free resources to support your lessons, including activities on elements from the Periodic Table and ideas to get the most from your iPad.

www.collins.co.uk

Free Bad Science lessons



education@harpercollins.co.uk







# **Collins BTEC First Applied Science**





Authors: John Beeby, Nicky Thomas, Lyn Nicholls, Chris Sherry, Kevin Smith and Gemma Young

Collins BTEC First Applied Science is fully updated to meet the 2012 specification and provides support to students and teachers studying for the BTEC First qualification.

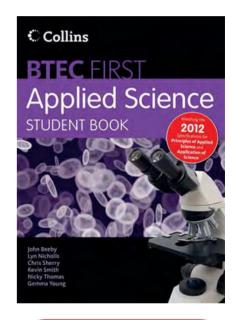
## **Student Book:**

- Enable your students to have access to the information they need with content for both BTEC qualifications: Principles of Applied Science Award and the Application of Science Award covered in the book
- Help your students find their way through the qualification with the contents and assessment references fully updated to match the 2012 specification
- Support students through the external assessment with clearly laid out content broken down into manageable chunks and practice exam questions
- Provide clear step-by-step direction and guidance with Pass,
   Merit and Distinction content clearly differentiated and signposted on each page

## **Teacher Pack:**

Comprehensive support for teachers is provided in Teacher Pack 1: Principles of Applied Science (Units 1-4) and Teacher Pack 2: Application of Science (Units 5-8):

- A cost-effective solution as units 1–4 are available in a printed pack, and units 5–8 are in a downloadable pack from our website
- Help your students build their portfolios of evidence with worksheets and templates they can complete and submit for their assignments
- Support your teaching with an easy to use and adaptable
   Scheme of Work and detailed lesson plans to cover all units



#### Units covered:

Collins BTEC First Applied Science contains all units for the 2012 qualifications

- Unit 1: Principles of Science
- Unit 2: Chemistry and Our Earth
- Unit 3: Energy and Our Universe
- Unit 4: Biology and Our Environment
- Unit 5: Application of Chemical Substances
- Unit 6: Application of Physical Science
- Unit 7: Health Application of Life Science
- Unit 8: Scientific Skills

Praise for the 2010 edition:

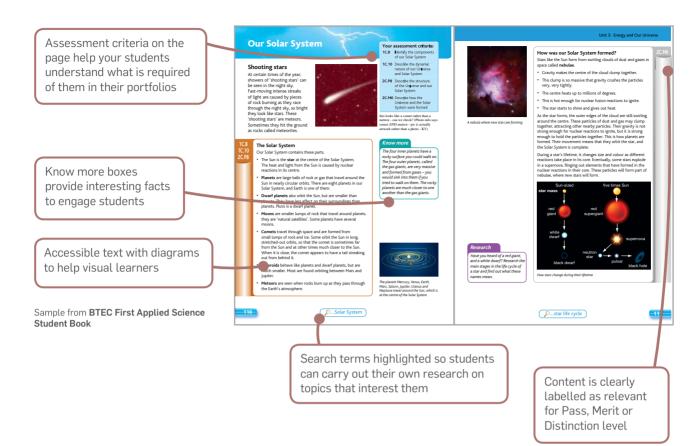
Can I congratulate you on the BTEC book, it's great. The whole department were in agreement that it was the best we have seen and is going to be really useful... and save us time and energy. Science Department, Medina High School, Isle of Wight

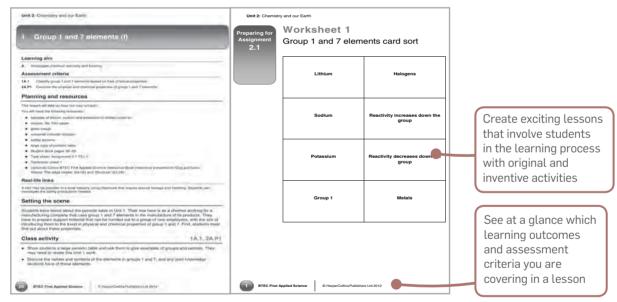












Sample from BTEC First Applied Science Teacher Pack 1

Collins BTEC First Applied Science (2012 Edition) Student Book	978-0-00-748842-1	£19.99
Collins BTEC First Applied Science (2012 Edition) Teacher Pack Units 1-4	978-0-00-748870-4	£150.00
*Collins BTEC First Applied Science (2012 Edition) Teacher Pack Units 5-8	978-0-00-748972-5 Download from www.	

\*Important information!

Teacher Pack Downloads are only available from the Collins website and can only be paid for by credit card or by invoice to your school account. Visit www.collins.co.uk to buy or find out more.

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# **OCR Entry Level Science**

Authors: Chris Sherry, Brian Cowie, **Louise Smiles** 





**OCR** 

Endorsed by OCR for use with the OCR Entry Level Science specification, the Collins Entry Level Science resources will help you to motivate your students and encourage progression by making science accessible.

## **The Student Book:**

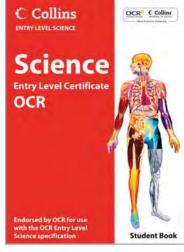
- Support entry level students with content pitched at the right level; short manageable sentences, bullet points and explanatory images to help visual learners
- Practice and test understanding with questions on every page, including a stretching final 'Challenge' question
- Encourage students to think for themselves with engaging prompt guestions
- Help students overcome common misconceptions with Remember boxes
- Build practical and mathematics skills with activities at the end of each item
- Prepare for end-of-item tests with student-friendly checklists
- Simplify planning with flexible, comprehensive lesson support, including practicals and technician guidance
- Manage a range of different abilities with differentiated worksheets and activity suggestions

# **The Teacher Guide:**

• Simplify planning with comprehensive lesson support, including technician quidance

• Build practical skills with clear guidance for students

Student Pack 978-0-00-741516-8 £16.99 Teacher Pack 978-0-00-741518-2 £150.00













# **Collins KS3 Revision**



Excellent revision and consolidation of key content and skills at the end of the key stage, to ensure the best possible results in tests and assessments.

- Ideal used alongside Collins Key Stage 3 Science, Second Edition to reinforce key concepts and help students consolidate understanding as they progress through the key stage
- Revision guide provides five distributed practice opportunities for each topic, so that students can test, revisit and review their understanding throughout their revision
- All-in-one Revision Guide and Workbook includes even more topic based and mixed practice questions to guarantee the best results

 Year-by-year workbooks are packed with practice questions to reinforce and test understanding of all concepts and skills

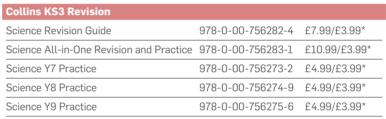


**KS3 Revision** 

Science



\*Schools' price, just £3.99



# **Letts KS3 Revision**



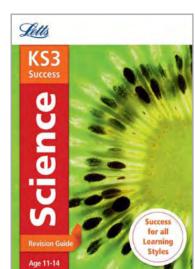


the new programme of study for Key Stage 3 Science.

This unique and innovative revision guide is matched to

- Specially designed to support all learning styles so that every student can achieve the best results.
- Original magazine-style layout communicates all the essential information effectively for visual learners.
- Hands-on activities for every topic provide revision opportunities for Kinaesthetic learners.
- Free audio tracks talk auditory learners through all they key points.
- Three-pronged approach for different types of learners ensures all students get the most out of their revision.

Letts KS3 Revision		
<b>NEW</b> Science Revision Guide	978-1-84-419763-7	£5.99
NEW Science Workbook	978-1-84-419764-4	£5.99
NEW Science Complete Coursebook	978-1-84-419765-1	£12.99
NEW Science Practice Test Papers	978-1-84-419766-8	£5.99









# **Collins Revision**

Improve grades with Collins Revision

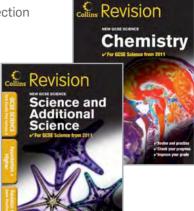


OCR AQA Edexcel



- Give your students the flexibility to revise in a way that suits them, with combined Revision Guide, write-in Workbook and answers in a detachable section
- Build your students' confidence with graded questions to test themselves, check their progress and improve
- Equip students with the skills they need to revise effectively and do
  their best on the day, with practical guidance, exam technique tips and
  clear advice on how to move answers up a grade
- Students embarking on their GCSE course can be sure they are practising the skills and content they need
- Help KS3 pupils review what they've learned, practise and improve their level with Collins Revision for KS3 Science, also available as a combined Revision Guide and write-in Workbook, with detachable answers

Collins GCSE Science Revision Guides cover Science and Additional Science. There are revision guides for AQA and OCR Gateway Separate Sciences. Please see the order form for the full range of Collins GCSE Revision titles.



Schools' price, just £3.99

# **Revision Plus**

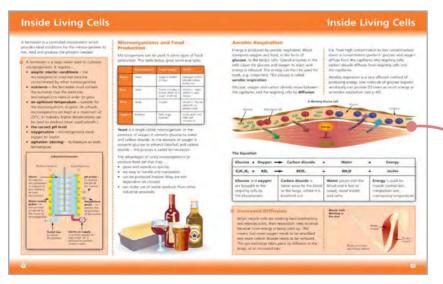
Revision Plus revision guides and workbooks provide in-depth and comprehensive coverage of the GCSE Science content and thorough support throughout the course.



OCR AQA Edexcel

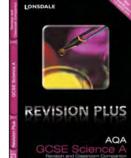


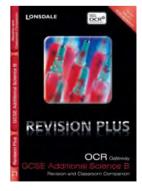
- Ideal for the classroom, homework setting and independent study and revision
- Detailed explanations and worked examples
- Direct references to the exam board specification
- Diagrams and illustrations are used to clarify key points
- Higher tier material is differentiated throughout
- Exam Practice workbooks are matched to the guides to consolidate understanding



Sample from Revision Plus Edexcel GCSE Biology

Schools' price, just £3.00





Diagrams and images to boost memory and support visual learners

See the order form for full details and price information – including fantastic special offers for schools.







# **Collins GCSE Essentials**

GCSE Essentials Revision Guides and Workbooks provide concise coverage of all the GCSE Science course content and represent fantastic value for money.

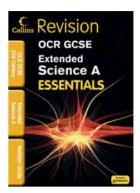
- Succinct notes concentrating on the essential content
- User-friendly language and clear accessible explanations
- Extensive practice material to test learning
- Exam Practice workbooks are packed with additional practice material, including exam-style questions.

Simple and engaging explanations

OCR AQA Edexcel





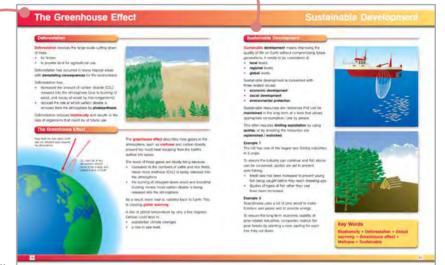


Examiner's tips and advice throughout

Schools' price, just £2.50

See the order form for full details and pricing information for Essentials Revision Guides for GCSE Science.

Sample from Essentials AQA GCSE Biology



# iBooks Textbooks – Collins Essentials Revision Guides for AQA

Clear and concise coverage of all the exam-assessed content on the AQA GCSE Science specifications. Information is broken down into manageable chunks, key words and phrases are highlighted for last minute recaps and there are lots of interactive quizzes, videos and diagrams to aid understanding.

# Available titles:

- AQA GCSE Science A Revision Guide
- AQA GCSE Additional Science Revision Guide
- AQA GCSE Chemistry Revision Guide
- AQA GCSE Biology Revision Guide
- AQA GCSE Physics Revision Guide

Go straight to the iBookstore and find out more about iBooks Textbooks! Or visit http://itunes.com/uk/collinseducation

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www.collins.co.uk





Samples from AQA GCSE Science A Collins Essentials

Download on the iBookstore

See the order form for full details and pricing of revision titles.

You can also take a closer look by downloading a free sample chapter from the iBookstore.



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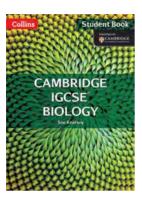


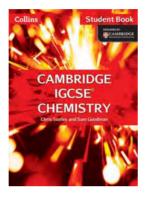
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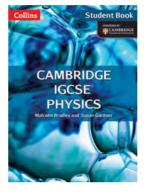


# Cambridge Edexcel **Collins Cambridge IGCSE®** Science and Edexcel International GCSE Science

Brand new resources for Cambridge IGCSE® and Edexcel International GCSE designed to help your students achieve success.

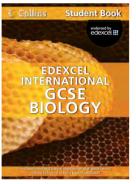


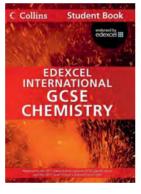


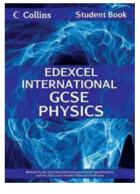


**Endorsed by Cambridge International Examinations** 

Revised and updated Second Editions for the Cambridge IGCSE<sup>°</sup> Science syllabus









## Student Books:

- Engage students with international case studies and examples of how science is used in the real world
- Push your brightest students and help them prepare for post-16 study with extended material
- Help students to consolidate knowledge with clear diagrams, learning objectives and checklists
- Check understanding and help to prepare for assessment with lots of practice exam-style questions at the end of each section
- Help prepare for practical assessment with a dedicated chapter
- Support students with English as a Second Language with a detailed glossary

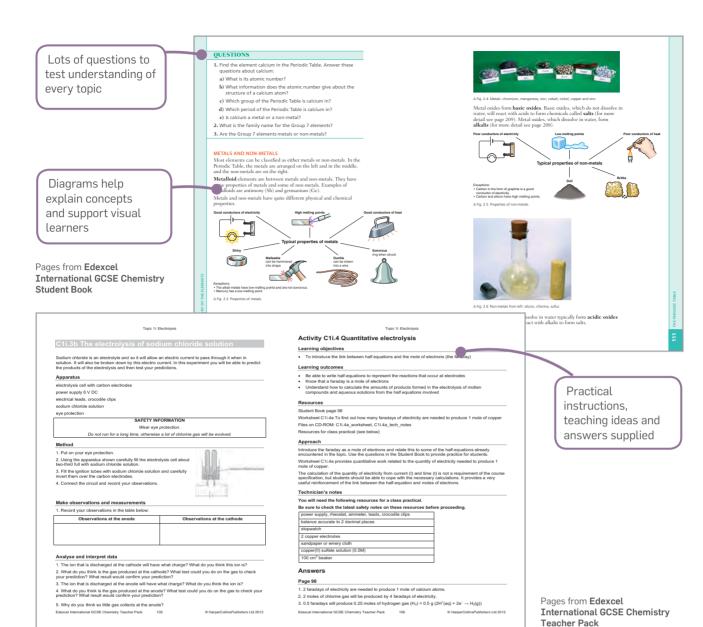
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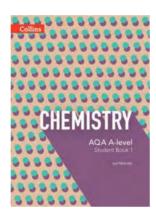
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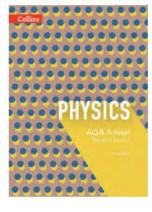
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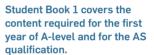
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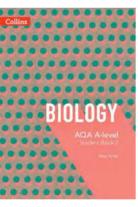


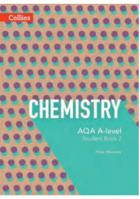


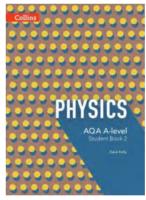


Our Student Books have been entered onto the AQA approval process.









Student Book 2 has the additional content required for A-level.

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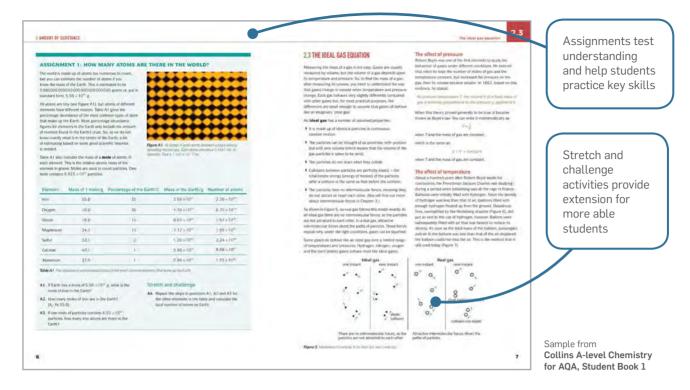
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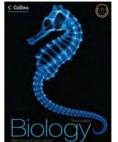
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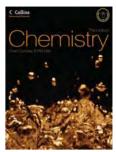
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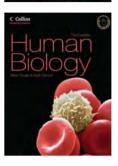
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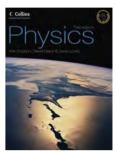
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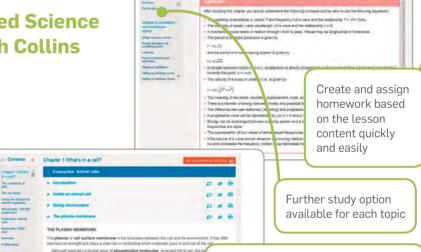
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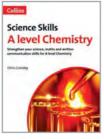














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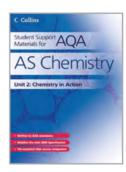
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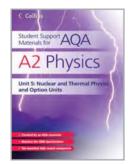
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