

# SCIENCE 2017-2018 KS3 • GCSE • International GCSE A-level • Revision

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# Collins



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# Welcome to the 2017–2018 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.



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# **Collins Connect**

# Collins Connect

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

- 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 with auto-generated reports which highlight strengths and areas to improve

### **GCSE Science on Collins Connect**

### **Engaging lessons:**

- Engage students with informative videos and interactives of key concepts, theories and practicals
- **Teach flexibly**, the book view feature provides total fluidity between digital and print
- Quickly access planning tools and activities the corresponding section from the teacher guide is included with the lesson content

### **Build skills:**

- **Build maths skills** using maths activities to help students develop the skills they need for the GCSE exam
- **Support practical work** resources for all required practicals are available to help students consolidate and practice their learning
- **Build confidence in answering longer questions** with downloadable, editable exam-style practice questions with full mark scheme

### **Track progress:**

- Easily track pupils' progress with diagnostic
- Quickly check understanding of a topic with online auto-marked test questions such as multiple choice and fill-in-the-blanks

### **AQA KS3 Science on Collins Connect**

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

- Teach flexibly with an interactive version of the student book, ideal for whiteboard use
- Quickly access teaching resources the corresponding section from the teacher guide is included with the lesson content
  - Trial Collins Connect free for 14 days. Contact education.support@harpercollins.co.uk
  - See Collins Connect demonstrated in your school. Contact your local rep using our online form to arrange a visit www.collins.co.uk/findyourrep



Sample from GCSE (9–1) Science on Collins Connect



Watch our GCSE Science on Collins Connect trailer at www.collins.co.uk/SecondaryScience

# **AQA KS3 Science**

### Author: Ed Walsh and Tracey Baxter

Develop mastery at KS3 with an engaging two-year course for the new AQA KS3 Science syllabus.



The Student Books have been approved by AQA.

### **Student Books:**

- Teach with confidence, the Student Books have been approved by AQA
- Ensure progression throughout the course with Know, Apply and Extend concepts from the AQA syllabus embedded in each spread
- Develop working scientifically skills with enquiry processes integrated into each lesson
- Guide students confidently through the AQA Mastery Goals and 10 big ideas, which are reflected in the learning objectives for each lesson
- Check understanding and track progress with questions at the end of each topic and chapter
- Prepare students for GCSE and develop key skills with maths, literacy and extended writing skills embedded throughout
- Engage and excite students with material and activities that bring science to life

### **Teacher Packs:**

- Deliver the new course confidently with teacher support fully matched to the AQA KS3 Science syllabus, the big ideas framework and enquiry processes
- Support students in meeting AQA's mastery goals, each lesson maps to the Know, Apply and Extend concepts with three levels of learning outcomes
- Support your planning with 2 and 3 year schemes of work
- Teach your way, all Teacher Pack resources are available as editable, printable documents on a CD Rom

### **Collins Connect:**

• Teach flexibly and encourage home learning with online versions of the Student Book and Teacher Pack on Collins Connect

> Find out more about AQA KS3 Science on Collins Connect, turn to page 3.





Please note that only the Student Books and Digital Student Books were entered in the AQA approval process. The Student Books have been approved by AQA.

NEW AQA KS3 Science: Digital Student Book and Teacher Guide Part 1

NEW AQA KS3 Science: Digital Student Book and Teacher Guide Part 2

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# **GCSE science ready: Transition Tests and Intervention Tasks**



### Authors: Mark Gadd, Ed Walsh, Alex Holmes and Emily Quinn

Track pupil progress and diagnose gaps in knowledge at KS3 using the Transition Tests, and resolve them with targeted Intervention Tasks. An ideal assessment companion to AQA KS3 Science.

### **Transition Tests:**

- Ensure all pupils have acquired the 'mastery' required at KS3 to succeed in the new, more challenging GCSEs
- **Support diagnosis and intervention** with a simple tracking spreadsheet that records test results by difficulty of question
- Meet the requirements of the AQA KS3 syllabus with Enquiry Processes and Working Scientifically skills embedded throughout, and complete coverage of AQA's Big Ideas and mastery statements
- Prepare students for the demands of GCSE with coverage of key maths skills and a question breakdown that matches the new GCSE Assessment Objectives – 40% 'know', 40% 'apply' and 20% 'analyse and interpret'

### **Intervention Tasks:**

- Provide support where gaps in knowledge have been identified by the Transition Tests, with 20 tasks each looking at two 'strands' of the AQA KS3 syllabus
- Maintain interest and avoid assessment fatigue with a variety of assessment activities including discussion, using equipment and group interaction
- Comprehensive support for assessing whether students have made the required progress and giving student feedback, as well as providing further interventions to address persistent weaknesses
- Ensure complete coverage of all 16 Enquiry Processes and Working Scientifically Skills, which are embedded throughout





NEW GCSE science ready: Transition Tests	978-0-00-8215316	£125.00	Out now	
<b>NEW</b> GCSE science ready: Intervention Tasks	978-0-00-8215323	£125.00	Out now	
<b>NEW</b> GCSE science ready: Transition Tests and Interv	ention Tasks bundle offer	£200.00	Promotion code GSR17*	
*Only available to LIK schools and not to be used in conjunction with any other offer				

# **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 is fully matched to 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 quizzes 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.





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 and enables the resources to be used for front of class teaching, including whiteboard use. Full terms and conditions can be found online at www.connect.collins.co.uk

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OCR endorsed Collins Connect

AQA

Approved

# GCSE (9–1) Science

Series Editors: **Ed Walsh** Authors: **John Beeby, Ann Daniels, Sandra Mitchell and Anne Pilling** 

Written for the **AQA** and **OCR Gateway** (9–1) specifications, our resources will develop and embed the skills your students need to succeed in all three assessment objectives, while providing a clear and supportive route through the new, more challenging GCSE content.



# How our resources support your students to tackle the new GCSE (9–1) Science requirements:

- **Increased maths element:** a dedicated maths spread in every chapter and skills at the appropriate level embedded throughout, provide a wealth of support and practice
- Practical assessment: Coverage of the required practicals to develop and test skills in analysing, interpreting and evaluating information and ideas so students are well prepared for the indirect assessment
- Assessment: Regular formative and summative assessment opportunities are embedded throughout the course both in print and on Collins Connect

### How our resources support you:

- Fully flexible support: Our course structure allows you to teach your way. With 2, 3 and 5 year schemes of work allowing easy progression from KS3 and a strong basis for A-level, as well as options for teaching Higher and Foundation, Single and Combined
- Teach with confidence: The AQA Student Books are approved by AQA and the OCR Gateway Student Books are endorsed by OCR. The Teacher Packs and digital resources have not entered an AQA approval process or an OCR endorsement process

### Turn to page 12 for the full Collins GCSE (9–1) Science component chart.



### Want to find out more?

Visit our GCSE Science homepages at **www.collins.co.uk/AQAGCSEscience** and **www.collins.co.uk/OCRgatewayGCSEscience** for more information about the series and to download sample chapters and free resources.

### Student Books

Written by a team of expert authors for the 2016 specifications, the student books combine clear and comprehensive explanations with a wealth of practice opportunities, to help build the skills that students will need to succeed.

Co-teach both Foundation and Higher tier with a single book

### Biology Cells at work Learning objectives explain the need for energy describe aerobic respiration as an exothermic reaction. This runner is using energy to run a marathon. But we all need a continuous supply of energy – 24 hours a day – just to stay alive. We need energy to live Organisms need energy: to drive the chemical reactions needed to keep them alive, including building large molecules for movement. To inovenient. Energy is needed to make our muscles contract and to keep our bodies warm. It's also needed to transport substances around the bodies of animals and plants. In other sections of the book, you will also find out that energy is needed:



KEY WORDS

for cell division
 to maintain a constant environment within our bodies
 for active transport. Plants use active transport to take up mineral ions from the soil, and to open and close their

stomata • to transmit nerve impulses.

 List four uses of energy in anim List four uses of energy in plants.

### Aerobic respiration

Respiration is the process used by all organisms to release the energy they need from food. Respiration using oxygen is called aerobic respiration. This type of respiration takes place in animal and plant cells, and in many The word equation for aerobic respiration is: glucose + oxygen  $\rightarrow$  carbon dioxide + water (+ energy released) Glucose is a simple sugar. It is the starting point of respiration in most organisms. The food that organisms take in is, therefore, rted into alı

### Write down the word equation for aerobic respiration How do birds and mammals make use of the waste heat energy? Bioeneraetics These are the word and symbol equations for aerobic respiration: $glucose + oxygen \rightarrow carbon dioxide + water (energy released)$ $C_6H_{12}O + 6O_2 \rightarrow 6CO_2 + H_2O (energy released)$ released)<sup>2</sup> This equation describes the overall change brought about through each of a series of chemical reactions. A small amount of energy is actually released at each stage in the series. The first group of steps occurs in the cytoplasm of cells, but most of the energy is transferred by chemical reactions in when the states.

Figure 1.38 Birds a

6 Write down the symbol equation for aerobic respiration G Give one characteristic feature of actively respiring cells

This chemical reaction is **exothermic**. A reaction is described as exothermic when it releases energy. Some of the energy transferred is released as heat.

Required practicals spreads in each chapter build and test students' development of the appropriate skills

Figure 1.39 Insect flight muscles huge numbers of well-developed mitocherodria

DID YOU KNOW?





Samples from AOA GCSE (9-1) Student Book

### **Teacher Guides**

Deliver the new curriculum with confidence and help all students make progress using our comprehensive support, including schemes of work, editable lesson plans and a wealth of differentiated materials.

### Assessment

Track students' progress in the new linear GCSE course, with regular formative and summative assessment opportunities, both digital and print, embedded across the course. Easily track progress and identify weaknesses with diagnostic reporting on Collins Connect broken down by topic and assessment objective. End of topic, end of teaching block and end of year tests provide regular review checkpoints throughout the linear course.



# **Collins GCSE Science: Component chart**

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### Turn to page 13 to see our range of skills support books for GCSE (9-1) Science.

### Terms and conditions:

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**.

# Skills support for GCSE Science

Build confidence, support the development of key skills and provide plenty of practice with targeted GCSE Science skills support from Collins, new for the (9–1) specifications.



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Help students practise and perfect the cover skills for the new GCSE Science (9–1) specifications; Applying Maths in Science, Working Scientifically and Writing Extended Answers. Suitable for all exam boards.

For full pricing details, please see the enclosed order form.



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

Fully matched to the 2012 specification, Collins BTEC First Applied Science provides support to students and teachers studying for the BTEC First qualification.

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- 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

Collins BTEC First Applied Science (2012 Edition) Student Book	978-0-00-748842-1	£19.99
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### Collins



### Units covered:

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

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- 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



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- Enable students to grasp challenging science with clear and accessible content and full glossary support
- Help students to develop practical skills with coverage of all required practical investigations
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- Save time on medium- and long-term planning with a clear overview of each topic and links to other topics highlighted
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Title	ISBNs	Schools' price
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