EXPLORING SCHENCE **WORKING SCIENTIFICALLY** course Guide

Engage KS3 students in science and build key skills for GCSE (9-1) success



New features for 2019!

Build key science skills for GCSE (9–1) success

Suitable for

all awarding organisations

Now is a great time to take a fresh look at Exploring Science as your KS3 course. Already popular with hundreds of schools, it provides an engaging and inspiring way to develop students' love of science, while building skills that are critical to GCSE (9–1) success. With your help, it's just got even better!

New features for 2019:

- ✓ NEW KS3 Lab Books: develop practical skills for GCSE (9–1) success
- NEW interactive Scheme of Work: a flexible online 11-16 planning tool
- NEW Assessment Builder: create customised assessments to fit your teaching
- ✓ NEW curriculum mapping: for Pearson Edexcel and AQA.

Personalised progression to GCSE (9–1)

- Deliver the course over 2 or 3 years.
- Suitable for all awarding organisations, with mapping provided for Pearson Edexcel and AQA KS3/11-16 pathways, Entry Level Certificates and GCSE (9-1).

Learn more and start your free trial: www.pearsonschools.co.uk/ks3exploringscience

Practical skills

- Over 150 practicals to introduce the full range of skills and techniques.
- NEW KS3 Lab Books: write-in lab books for 12 key practicals.
- Great preparation for the GCSE (9–1) Core/Required Practicals.

- develop evaluation skills (AO3)

Maths skills

- Revision
 - Summary sheets.
 - Word sheets.
 - Quick guizzes.



page 13.

More on

GCSE-style questions

- From the start of Year 7, Exploring Science encourages students to:
- apply knowledge to unfamiliar contexts (AO2)
- recognise and respond to GCSE-style command words.

- Explanations and worked examples in the Student Books.
- 1000s of activity sheets on ActiveLearn.
- Terminology and approaches consistent with those used in maths teaching.

What's in **Exploring Science?**

Student Books

The Student Books present KS3 science in the series' well-loved style, packed with fascinating real-world examples, photos and facts to encourage all students to connect what they're learning to their world. Online versions of the Student Books - ActiveBooks are also available.

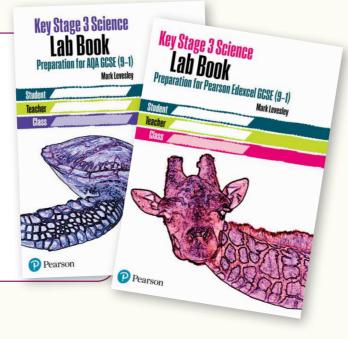
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NEW Lab Books

Focused support for 12 KS3 practicals, designed to introduce the full range of skills required for the GCSE (9–1) Core/Required Practicals. This support extends to teachers too – we provide full teacher and technician guidance including a skills mapping grid.

More on page 13



Learn more and start your free trial: www.pearsonschools.co.uk/ks3exploringscience

What's in Exploring Science Active Learn?

- 1000s of teaching and learning resources
- Access for all teachers and students in your school

Teaching resources

- 3 front-of-class Student Books
- 200+ world-class videos and animations
- 300+ interactive activities
- 650+ PowerPoint presentations
- 1000+ activity worksheets

More on page 8

ActiveLearn

Student resources

- 800+ auto-marked homework activities
- Summary Sheets, Word Sheets and Quick Quizzes for every unit

More on page 10



Planning

- **NEW** interactive Scheme of Work
- Differentiated routes
- 150+ lesson plans
- 150+ technician notes

More on page 12

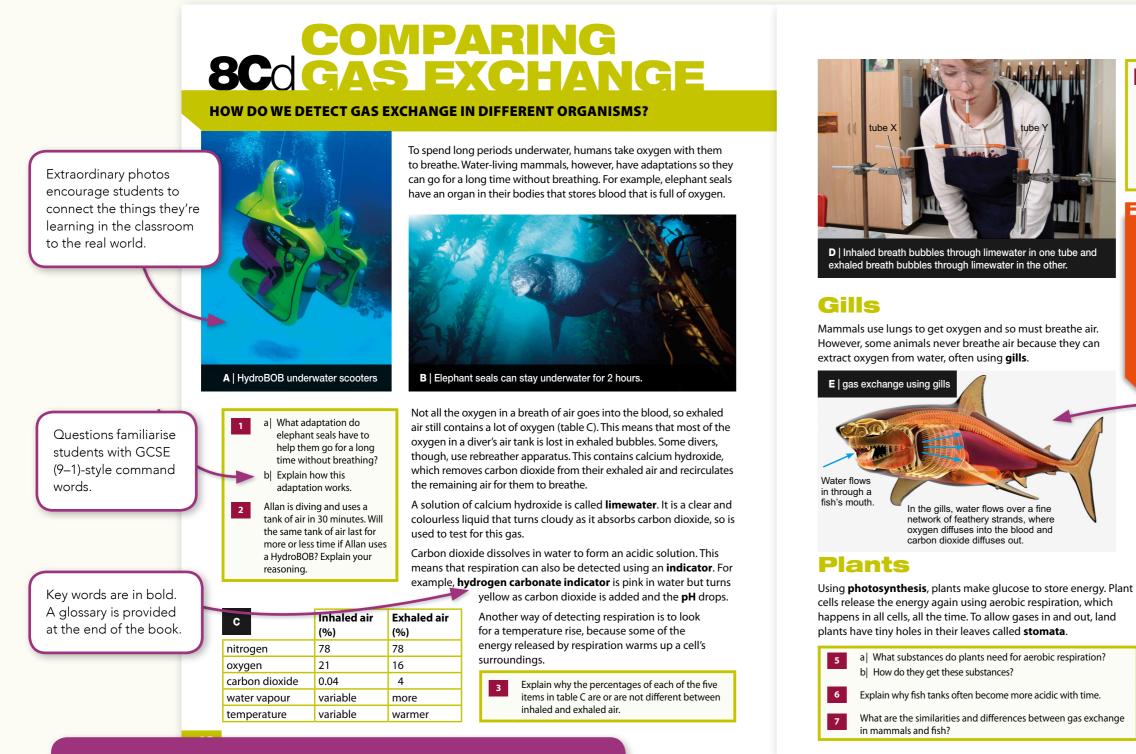
Progress & Assess

- Baseline tests for KS3 and KS4
- End-of-unit and end-of-year tests
- NEW Online Markbooks
- NEW Assessment Builder

More on page 11

Student Books and ActiveBooks

Inspire budding scientists from the start of Year 7 with Exploring Science Stud ent Books. Take a closer look...



Download your free samples at www.pearsonschools.co.uk/KS3ExploringScience

Clear learning outcomes ensure students understand their own learning journey.



Active Learn

Online versions of the Student Books are available as ActiveBooks for students to use at home.





Learn more and request your free trial at www.pearsonschools.co.uk/KS3exploringscience

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Active Learn

Teaching resources





ActiveLearn Student resources

Homework and Practice exercises

ActiveLearn includes hundreds of auto-marked activities for your students to use in lessons or at home, to cement their knowledge and skills.

ActiveLearn

Student resources



ActiveLearn Progress & Assess

ActiveLearn Progress & Assess* is a reliable, easy-to-use system to track students' progress from KS3 to GCSE. It can work alongside your own system, will give you confidence in your data, helps you plan appropriate interventions, and saves you time.

It includes:

- \checkmark 12-Step Progression Scale with mapping to indicative GCSE (9–1) grades
- Progression Map for KS2 to KS4
- ✓ Baseline, end-of-unit and end-of-year assessments for KS3 and KS4
- NEW Assessment Builder
- Mark schemes
- ✓ NEW Online Markbooks that provide analysis of students' results.

NEW Online Markbooks

Online Markbooks are aligned with your ActiveLearn assessments. Use these to record your students' results throughout the year, predict future performance, quickly identify problems, and take the most effective actions.

NEW Assessment Builder

Create assessments to match your teaching, choosing questions that test the skills and topics you have covered. Assessment Builder can be used alongside your personal lesson plans or with our Schemes of Work.

ActiveLearn Progress & Assess is included as part of the Exploring Science ActiveLearn subscription, or can be purchased as a separate subscription for 11-16, KS3 or KS4 science. www.pearsonschools.co.uk/ScienceProgressAndAssess

ActiveLearn

Progress & Assess



ActiveLearn

Planning

ActiveLearn Planning and guidance

Complete support for planning and teaching, including:

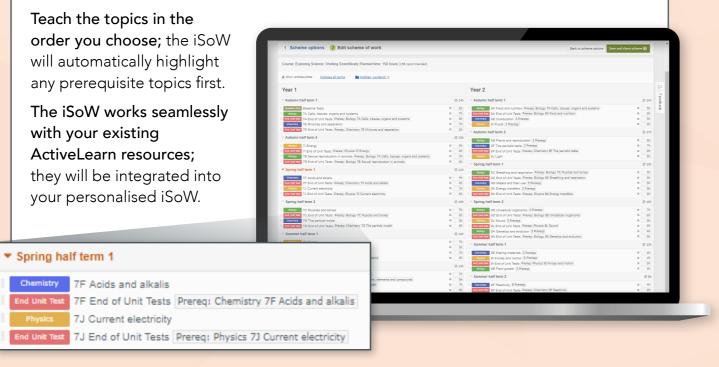
- detailed teacher and technician notes
- \checkmark lesson ideas to suit a range of teaching and learning styles
- mapping to Pearson Edexcel and AQA KS3/11-16 pathways, Entry Level Certificates and GCSE (9-1)s
- \checkmark answers to questions in the Student Books and Lab Books.

NEW Interactive Scheme of Work

A fantastic new online planning tool for a seamless 11-16 science learning pathway (KS3 and GCSE 9–1), and you can start using the iSoW straight away for free!

What is it?

Like a traditional scheme of work, our digital iSoW helps you cover the full curriculum and qualification requirements over 5 years. You can choose a 2 or 3-year Key Stage 3.



Learn more at www.pearsonschools.co.uk/KS3isow

NEW Lab Books

Developing practical skills at KS3 in preparation for GCSE (9–1)

The framework students need to perform practicals with confidence, with versions available to prepare students for Pearson Edexcel or AQA GCSE (9–1) specifications.

- \checkmark 12 engaging, enjoyable KS3 practicals designed to introduce the full range of skills required for the GCSE (9–1) Core/Required practicals.
- ✓ Writing frames and questions to develop students' scientific skills and prepare them for GCSE-style assessment.
- A skills grid and skills appendix, which students can refer to as needed.
- Affordable support that's cheaper than photocopying (RRP only £2.00).
- \checkmark A free online Teacher and Technician Guide to help with the delivery of each practical, including a full set of answers and links to Exploring Science Working Scientifically.
- \checkmark A skills mapping grid so you can see how the 12 practicals link to the KS3 Curriculum, and the GCSE (9-1) Core/Required Practicals.

Chemistry 1: Testing indigest	ion rei	mec	lies
Practical work	ach can s	give	you indigest
for indigestion (often called antactus) co	ntain a b		such as mag
Apparatus		•	Dilute acid
eye protection5 large test tubes			
5 large test tubes			
test-tube rackmeasuring cylinder			
 measuring cylinder 			

- 4 small samples of indigestion remedies
- stirring rod
- universal indicator paper and colour chart
- dilute hydrochloric acid

Planning

- 1 Look at the apparatus and safety information
- a State one hazard. **b** Describe how you will reduce the risk of this hazard causing ha

- **A** Measure out 10 cm³ of acid into each test tube. Stand the tubes in the rack **B** Drop a piece of pH paper into the first test tube. Record its colour and pH number.
- C One at a time, put each antacid sample into each of the four remaining test tubes

"These build good routines for GCSE"

Matt Squire, Head of Science, Winchcombe School

Necolamby	
 Record your results in the table be 	elow.
2 Record your results in the table	full paper
Remedy Name (if any)	Colour of pH paper
Remedy Name (In any)	

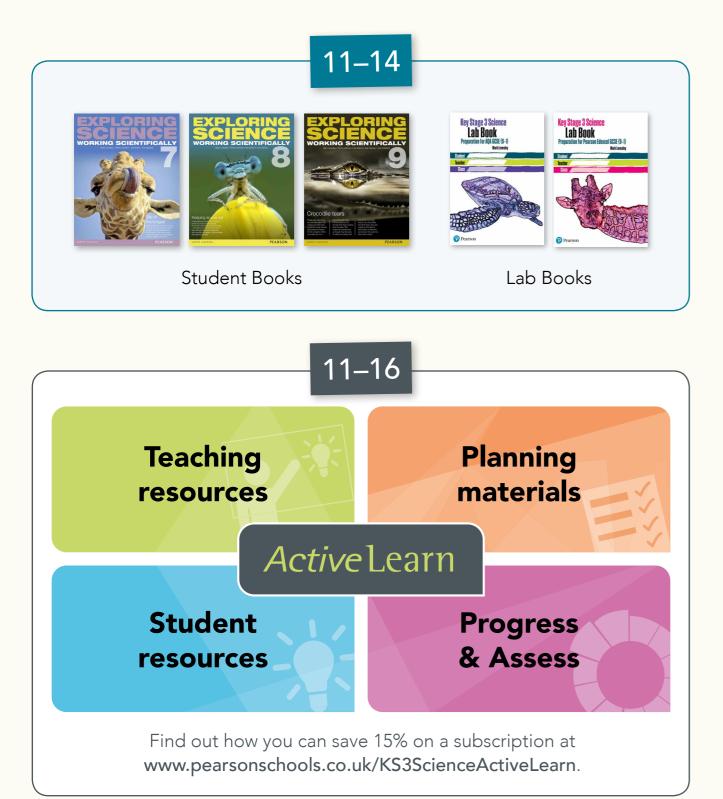


Exploring Science, Pearson Edexcel's 11-16 Science Learning Pathway, AQA's KS3 Syllabus



Seamless support from KS3 to GCS E (9–1)

Exploring Science Working Scientifically provides a seamless progression to Pearson Edexcel and AQA GCSE (9–1) Science qualifications. Topics are mapped to Pearson Edexcel's 11–16 Science Learning Pathway, Entry Level Certificates and GCSE (9–1) specifications, and AQA's KS3 Syllabus, Entry Level Certificates and GCSE (9–1) specifications.







EXPLORING SCIENTIFICALLY

Next steps:

Request a free trial or buy online

It's easy to download samples, request a free trial, and personalise your order. You can also speak to a consultant online with our Live Chat service.

Visit: www.pearsonschools.co.uk/KS3exploringscience

Active Learn

If you would prefer to place your order over the phone, call **0161 855 7561**. We're open Monday to Friday 8.00am - 5.00pm.

www.pearsonschools.co.uk/KS3exploringscience



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