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# Science

Cambridge resources for the Cambridge Pathway



Building Brighter Futures Together

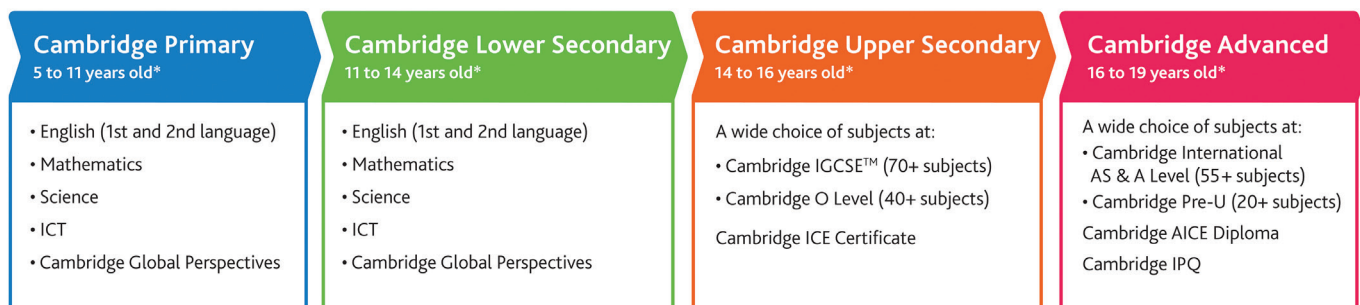
Brighter Thinking

Better Learning





A clear path for educational success from age 5 to 19



Cambridge Professional Development for teachers and school leaders

\*Age ranges are for guidance only

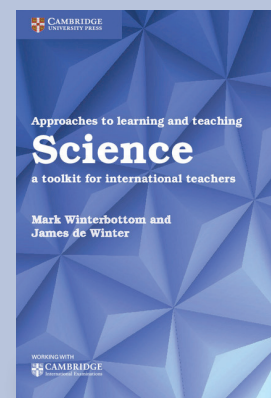
Learn • Discover • Achieve

## Teaching practice and professional development

### Get help putting theory into practice

We collaborated with Cambridge Assessment International Education on a unique series to support teachers in the implementation of practical pedagogy. The *Approaches to learning and teaching* series gives examples, based on experience and observations of methodologies, to help teachers put theory into practice across a range of curriculum subjects. Now available in two library packs!

Find out more at [cambridge.org/approchestolearning](http://cambridge.org/approchestolearning)



978-1-316-64585-7

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“ *It's the only publisher in my experience that has asked for feedback in a variety of different ways and I feel like I'm listened to.* ”

Tana Marie Jitaru,  
New Castelar College, Spain

## The benefits of choosing Cambridge University Press

### ▶ **Practical and proven teaching techniques**

We learn from, and work with leading educationalists and authors in Cambridge and around the world to embed best teaching and learning practice. We only adopt evidence-based approaches in our resources.

### ▶ **Accessible learning for international students**

We work carefully to use language that enables learners to understand new and challenging concepts and to develop English as the language of the classroom and beyond.

### ▶ **A blend of relevant tools**

We write specifically to support Cambridge International curriculum frameworks and syllabuses, to offer a blend of print and digital resources, together with a range of professional development services, designed to enhance lesson planning, delivery and assessment.

### ▶ **Skills for life**

Our approach encourages students to be creative and critical thinkers, to be resourceful collaborators and communicators, and to be confident problem solvers and decision makers in education and in life.

### Follow us:

 [facebook.com/CUPeducation](https://facebook.com/CUPeducation)

 [twitter.com/CUPeducation](https://twitter.com/CUPeducation)

 [pinterest.com/CUPeducation](https://pinterest.com/CUPeducation)

Brighter Thinking

Better Learning

Building Brighter Futures **Together**

## Cambridge Primary Science

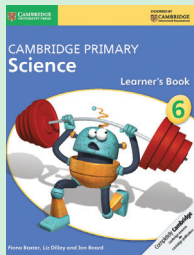
From exploring deep space to the creatures in their garden, get your class thinking and acting like scientists! Packed with opportunities to investigate, Cambridge Primary Science encourages learning through doing.

The series is mapped to the Cambridge Primary Science curriculum framework and provides an excellent foundation for the Cambridge Lower Secondary programme. All titles are endorsed by Cambridge International.

Visit [cambridge.org/education](https://www.cambridge.org/education) for more information about this series.

# Cambridge Primary Science

Feel confident with endorsed full curriculum coverage



Cambridge Primary Science is endorsed by Cambridge Assessment International Education. You can be confident the **series** delivers the depth and breadth of content required for the Cambridge Primary Science curriculum framework.

Your core learning resource

The **learner's book** is the core learner resource.

'Talk about it' features stimulate classroom discussion, which is an ideal way to engage students and develop their knowledge, while 'Check your progress' questions present assessment opportunities.

The language level is carefully pitched to be accessible to ESL learners, with concepts illustrated through diagrams to allow visual understanding. 'Words to learn' features point out key vocabulary.

Bring science to life

**Digital Classroom** is the perfect accompaniment to the series.

Share pages from the learner's books and activity books with your class and zoom, highlight or annotate text to emphasise important points.

Animations of scientific concepts with built-in discussion points improve your learners' understanding. The interactive glossary introduces learners to key scientific vocabulary and can be played straight from the page. Activities at the end of each unit allow you to review and consolidate learning.

Get support, ideas and inspiration to teach the course

With step-by-step guidance notes for every unit, tips for differentiation and photocopiable worksheets, the **teacher's resource** is a core element to course delivery. Includes end of unit tests for summative assessment.

Provide extra practice opportunities for your students

**Activity books** provide extra support to the learner's book. They cover the same topics and themes but provide opportunities for extra practice to consolidate learning. Perfect for use in the classroom or at home.

Support for the diversity of learning needs in the classroom

**Skills Builder workbooks**

For use alongside the activity books, **Skills Builder** is perfect for learners who need practice in topics or concepts.

**Challenge workbooks**

Ideal for learners who are confident in a topic or concept and need more challenging activities to stretch their learning. For use with activity books.

Cambridge Pathway:  
Cambridge Lower Secondary  
11 to 14 year olds

“ This book is better than others I have tried to use so far. It can prepare a student for Checkpoint exams...The language used in this book is at a level that can be easily understood by students of different language backgrounds.

Olivier Dufatanye,  
Biology teacher, Rwanda

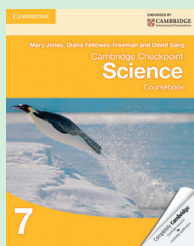
## Cambridge Lower Secondary Checkpoint Science

Build an electromagnet, learn about the history of elements and investigate the effect of exercise on pulse rate with Cambridge Lower Secondary Checkpoint Science. The course supports your teaching of the Cambridge Lower Secondary Science curriculum framework both theoretically and practically, with full coverage of the scientific enquiry framework throughout the strand.

All components are endorsed by Cambridge Assessment International Education.

# Cambridge Lower Secondary Checkpoint Science

Feel confident with endorsed full curriculum coverage



The **coursebook** is endorsed by Cambridge Assessment International Education, so you can be confident it delivers the depth and breadth of content required for the Cambridge Lower Secondary curriculum framework.

Get support, ideas and inspiration to teach the course

The **teacher's resource** is a core tool for delivering the course. It features:

- Suggestions on how to introduce concepts in the classroom and how to deal with common misconceptions
- A large collection of worksheets and activity suggestions, and guidance and safety notes for all practical activities

Provide extra practice opportunities for your students

**Workbooks** contain exercises that develop students' ability to apply their knowledge, as well as scientific enquiry skills relating to planning experiments and recording results.

Support for the diversity of learning needs in the classroom

**Skills Builder** uses tailored and scaffolded exercises that offer targeted support to help reinforce key skills and understanding.

**Challenge** provides targeted additional exercises that stretch students and help them develop deeper knowledge and understanding.

Support ESL science learners in developing their language skills

The **English language skills workbook** for students of Checkpoint Science 7-9 focuses on developing language skills through engaging activities that practise relevant language techniques within appropriate science contexts.

The **workbook teacher support resource** is available to download from our website and contains guidance for teachers on how to make use of the workbook.

“ I have been using Cambridge resources for IGCSE, O Level and A Level for a long time...workbooks, practical books, teacher resources...are very helpful in lesson planning and organizing practical activities and group work...Cambridge Elevate [enhanced editions] are extremely helpful with media, assessment and other options to accommodate differentiation...They are written in simple language which is easy to understand for students when English is not their first language.

Farhat Deeba  
Biology teacher, Pakistan

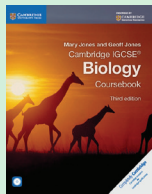
## Cambridge IGCSE™ Science

Our Cambridge IGCSE resources are written by experienced teachers and examiners, provide comprehensive coverage of the syllabus objectives, and all titles are endorsed by Cambridge Assessment International Education.

Cambridge IGCSE resources include Biology, Chemistry, Physics, Physical Science (workbook), Combined and Co-ordinated Sciences, Cambridge IGCSE and O Level resources for Environmental Management and O Level resources for Biology (revision guide) and Physics (coursebook with CD-ROM).

# Cambridge IGCSE™ Science

Feel confident with endorsed full syllabus coverage



The **coursebooks** are endorsed by Cambridge Assessment International Education, so you can be confident they deliver the depth and breadth of content required for the Cambridge IGCSE Science syllabuses. The coursebooks are available in print and digital with enhancements that provide assessment opportunities.

Engage your students and develop their understanding with digital learning resources

Cambridge Elevate hosts digital versions of our textbooks. **Enhanced editions\*** contain extra digital content to engage students and assist their comprehension. They include practice questions that provide student feedback and teacher insight opportunities. Science editions contain videos and animations that illustrate and explain difficult scientific concepts. (\*Available for Cambridge IGCSE Biology, Chemistry, Physics and Cambridge IGCSE and O Level Environmental Management.)

Get support, ideas and inspiration to teach the course

Our **teacher's resource** is designed to support teachers in using the coursebook and workbook to deliver learning that covers the syllabus. Teaching ideas for each topic give lesson and homework suggestions, and point out misconceptions. Provides worksheets and workbook answers.

Provide extra practice opportunities for your students

**Workbooks** help students build the skills required in both their theory and practical examinations. The exercises help students to consolidate their understanding and get used to using knowledge in new situations, develop information-handling and problem-solving skills, and develop experimental skills including planning investigations and interpreting results.

Support ESL science learners in developing their language skills

**Breakthrough to CLIL** workbooks offer integrated content and language support for science. They help ESL students get the most out of their studies when learning subjects through the medium of English. The workbooks contain exercises set within the context of biology, chemistry and physics to consolidate understanding, and embed practice in aspects of language central to the subject in question. Designed to be used alongside a core textbook, these can also be used for self-study.

Develop your students' maths skills for science

Mathematics is an integral part of scientific study and one that students often find complex. The **maths skills workbooks\*** are tailored, student-focused, write-in workbooks that allow students to practise maths skills in science contexts. A **teacher support resource** is also available to offer teachers help teaching mathematical concepts confidently. (\*Available for Cambridge IGCSE Biology, Chemistry and Physics.)

Extra help to develop practical skills

**Practical workbooks\*** provide practical investigations for students and guided exercises designed to develop the essential skills of handling data, planning investigations, analysis and evaluation. The **practical teacher's guides\*** help to include more practical work in lessons. They contain advice about planning investigations and safety considerations. Accompanying CD-ROMs contain sample data to be used when an investigation cannot be carried out. (\*Available for Cambridge IGCSE Biology, Chemistry and Physics.)

Support for students to develop and apply their skills and knowledge in their examinations

Study tips throughout the **coursebook** and exam-style questions at the end of each chapter, with revision and practice material on the CD-ROM. **Revision guides\*** provide additional support, and help students develop their skills, either in the classroom or at home, and prepare them to apply their skills in their examinations. (\*Available for Cambridge IGCSE Chemistry and Biology.)



Cambridge Pathway:  
Cambridge Advanced  
16 to 19 year olds

Complete series  
updated with  
new editions to  
support the  
2022 syllabus!

## Cambridge International AS & A Level Science

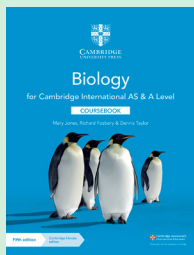
New editions of Cambridge International AS & A Level Biology, Chemistry, Physics and Marine Science help your students develop the investigative, practical and analytical skills to flourish. This flexible range of resources meets the real teaching needs of the science classroom. Help students succeed in a changing world and develop their 21st century skills.

*We are working with Cambridge Assessment International Education towards endorsement of these titles for AS & A Level science for examination from 2022.*

*We also have endorsed resources for Cambridge International AS & A Level Psychology and Pre-U Biology, Chemistry and Physics.*

# Cambridge International AS & A Level Science

Feel confident with endorsed full syllabus coverage



The **coursebooks** are being fully updated for the syllabuses for examination from 2022 so you can be confident they deliver the depth and breadth of content required for the Cambridge International AS & A Level science syllabuses. The coursebooks are available in print with a digital Cambridge Elevate edition, or as a stand-alone Cambridge Elevate edition.

Get support, ideas and inspiration to teach the course

Extensive research through lesson observations, teacher interviews and work with the Cambridge Panel provides classroom support in our Cambridge Elevate **teacher's resource** including:

- Activities to carry out in the classroom, including support for differentiation, practical work and reflection activities
- Homework and assessment ideas
- Guidance on how to elicit student misconceptions and combat them
- Time-saving, adaptable lesson plans and detailed lesson planning guidance

Provide extra practice opportunities for your students

The **workbooks** with Cambridge Elevate edition reinforce learning, promote application of theory and help students practise vital skills. A varied selection of formative exercises and exam-style questions help students hone the necessary skills of handling data, evaluating information and problem-solving.

\*(Available for Cambridge International AS & A Level Biology, Chemistry and Physics. Print workbook including theoretical and practical exercises available for Marine Science)

Extra help to develop practical skills

The **practical workbooks\*** help students develop key practical investigation skills including planning, identifying equipment, creating hypotheses, recording results and analysing and evaluating data. The focus on these essential skills supports students through the transition between Cambridge IGCSE and Cambridge International AS & A Level.

The **teacher's resource** includes downloadable support notes for the practical activities in the practical workbook and sample data.

\*(Available for Cambridge International AS & A Level Biology, Chemistry and Physics.)

Support for students to develop and apply their skills and knowledge in their examinations

The **coursebook** contains test-yourself question sets to check knowledge and understanding. Exam command terms are defined and incorporated frequently in assessment questions, helping students learn how to approach questions. Exam-style questions are included at the end of each chapter.

Answers to the coursebook, workbook and practical workbook are provided in the **teacher's resource**.

# Cambridge science resources

The following pages provide you with a complete list of the science resources featured in this brochure, along with their individual ISBNs.

Cambridge Primary Science	ISBN	Endorsement
Learner's Book 1	978-1-107-61138-2	✓
Learner's Book 2	978-1-107-61139-9	✓
Learner's Book 3	978-1-107-61141-2	✓
Learner's Book 4	978-1-107-67450-9	✓
Learner's Book 5	978-1-107-66304-6	✓
Learner's Book 6	978-1-107-69980-9	✓
Teacher's Resource with Cambridge Elevate 1	978-1-108-67828-5	●
Teacher's Resource with Cambridge Elevate 2	978-1-108-67829-2	●
Teacher's Resource with Cambridge Elevate 3	978-1-108-67830-8	●
Teacher's Resource with Cambridge Elevate 4	978-1-108-67831-5	●
Teacher's Resource with Cambridge Elevate 5	978-1-108-67833-9	●
Teacher's Resource with Cambridge Elevate 6	978-1-108-67834-6	●
Activity Book 1	978-1-107-61142-9	✓
Activity Book 2	978-1-107-61143-6	✓
Activity Book 3	978-1-107-61145-0	✓
Activity Book 4	978-1-107-65665-9	✓
Activity Book 5	978-1-107-65897-4	✓
Activity Book 6	978-1-107-64375-8	✓
Skills Builder Workbook 1	978-1-316-61098-5	✓
Skills Builder Workbook 2	978-1-316-61101-2	✓
Skills Builder Workbook 3	978-1-316-61102-9	✓
Skills Builder Workbook 4	978-1-316-61104-3	✓
Skills Builder Workbook 5	978-1-316-61106-7	✓
Skills Builder Workbook 6	978-1-316-61109-8	✓
Challenge Workbook 1	978-1-316-61113-5	✓
Challenge Workbook 2	978-1-316-61114-2	✓
Challenge Workbook 3	978-1-316-61117-3	✓
Challenge Workbook 4	978-1-316-61119-7	✓
Challenge Workbook 5	978-1-316-61120-3	✓
Challenge Workbook 6	978-1-316-61121-0	✓
Cambridge Elevate Digital Classroom Access Card (1 Year) 1	978-1-108-73404-2	●
Cambridge Elevate Digital Classroom Access Card (1 Year) 2	978-1-108-73406-6	●
Cambridge Elevate Digital Classroom Access Card (1 Year) 3	978-1-108-73408-0	●
Cambridge Elevate Digital Classroom Access Card (1 Year) 4	978-1-108-72159-2	●
Cambridge Elevate Digital Classroom Access Card (1 Year) 5	978-1-108-72163-9	●
Cambridge Elevate Digital Classroom Access Card (1 Year) 6	978-1-108-72169-1	●

## Cambridge Lower Secondary Checkpoint Science

	ISBN	Endorsement
Coursebook 7	978-1-107-61333-1	✓
Coursebook 8	978-1-107-65935-3	✓
Coursebook 9	978-1-107-62606-5	✓
Teacher's Resource CD-ROM 7	978-1-107-69458-3	✓
Teacher's Resource CD-ROM 8	978-1-107-62505-1	✓
Teacher's Resource CD-ROM 9	978-1-107-69649-5	✓
Workbook 7	978-1-107-62285-2	✓
Workbook 8	978-1-107-67961-0	✓
Workbook 9	978-1-107-69574-0	✓
Skills Builder Workbook 7	978-1-316-63718-0	✓
Skills Builder Workbook 8	978-1-316-63720-3	✓
Skills Builder Workbook 9	978-1-316-63724-1	✓
Challenge Workbook 7	978-1-316-63719-7	✓
Challenge Workbook 8	978-1-316-63723-4	✓
Challenge Workbook 9	978-1-316-63726-5	✓
English Language Skills Workbooks stages 7,8,9	978-1-108-43171-2	✓

✓ Endorsed by Cambridge Assessment International Education

● Working towards endorsement

Cambridge Breakthrough to CLIL		
Biology Workbook	978-1-107-69983-0	✓
Physics Workbook	978-1-107-68085-2	✓
Chemistry Workbook	978-1-107-63855-6	✓
Biology		
Coursebook with CD-ROM	978-1-107-61479-6	✓
Coursebook with CD-ROM and Cambridge Elevate enhanced edition (2 Years)	978-1-316-63769-2	✓
Cambridge Elevate enhanced edition (2 Years)	978-1-107-50301-4	✓
Teacher Resource CD-ROM	978-1-107-61496-3	✓
Workbook	978-1-107-61493-2	✓
Practical Workbook	978-1-316-61103-6	✓
Practical Teacher's Guide with CD-ROM	978-1-316-61105-0	✓
Revision Guide	978-1-107-61449-9	✓
Maths Skills Workbook	978-1-108-72812-6	✓
Chemistry		
Coursebook with CD-ROM	978-1-107-61503-8	✓
Coursebook with CD-ROM and Cambridge Elevate enhanced edition (2 Years)	978-1-316-63772-2	✓
Cambridge Elevate enhanced edition (2 Years)	978-1-107-50311-3	✓
Teacher Resource CD-ROM	978-1-107-61501-4	✓
Workbook	978-1-107-61499-4	✓
Practical Workbook	978-1-316-60946-0	✓
Practical Teacher's Guide with CD-ROM	978-1-316-61094-7	✓
Revision Guide	978-1-107-69799-7	✓
Maths Skills Workbook	978-1-108-72813-3	✓
Physics		
Coursebook with CD-ROM	978-1-107-61458-1	✓
Coursebook with CD-ROM and Elevate enhanced edition (2 Years)	978-1-316-63775-3	✓
Cambridge Elevate enhanced edition (2 Years)	978-1-107-50292-5	✓
Teacher Resource CD-ROM	978-1-107-61490-1	✓
Workbook	978-1-107-61488-8	✓
Practical Workbook	978-1-316-61107-4	✓
Practical Teacher's Guide with CD-ROM	978-1-316-61108-1	✓
Maths Skills Workbook	978-1-108-72846-1	✓
Combined and Co-ordinated Sciences		
Coursebook with CD-ROM	978-1-316-63101-0	✓
Teacher's Resource DVD-ROM	978-1-316-63107-2	✓
Biology Workbook	978-1-316-63104-1	✓
Chemistry Workbook	978-1-316-63105-8	✓
Physics Workbook	978-1-316-63106-5	✓
Physical Science		
Chemistry Workbook	978-1-316-63351-9	✓
Physics Workbook	978-1-316-63352-6	✓
Cambridge IGCSE® and O Level Environmental Management		
Coursebook	978-1-316-63485-1	✓
Coursebook with Cambridge Elevate enhanced edition (2 Years)	978-1-316-64602-1	✓
Cambridge Elevate enhanced edition (2 Years)	978-1-316-63491-2	✓
Teacher's Resource CD-ROM	978-1-316-63490-5	✓
Workbook	978-1-316-63487-5	✓
Cambridge O Level		
Physics Coursebook with CD-ROM	978-1-107-60783-5	✓
Biology Revision Guide	978-1-107-61450-5	✓

<b>Biology</b>		
Coursebook with Cambridge Elevate edition (2 Years)	978-1-108-85902-8	●
Coursebook Cambridge Elevate edition (2 Years)	978-1-108-79651-4	●
Teacher's Resource Cambridge Elevate edition	978-1-108-79779-5	●
Workbook with Cambridge Elevate edition (2 Years)	978-1-108-85942-4	●
Practical Workbook	978-1-108-79777-1	●
<b>Chemistry</b>		
Coursebook with Cambridge Elevate edition (2 Years)	978-1-108-86319-3	●
Coursebook Cambridge Elevate edition (2 Years)	978-1-108-79780-1	●
Teacher's Resource Cambridge Elevate edition	978-1-108-79659-0	●
Workbook with Cambridge Elevate edition (2 Years)	978-1-108-85905-9	●
Practical Workbook	Coming Soon	●
<b>Physics</b>		
Coursebook with Cambridge Elevate edition (2 Years)	978-1-108-85903-5	●
Teacher's Resource Cambridge Elevate edition	978-1-108-79675-0	●
Workbook with Cambridge Elevate edition (2 Years)	978-1-10885911-0	●
Practical Workbook	Coming Soon	●
<b>Marine Science</b>		
Coursebook with Cambridge Elevate edition (2 Years)	Coming Soon	●
Coursebook Cambridge Elevate edition (2 Years)	Coming Soon	●
Teacher's Resource Cambridge Elevate edition	978-1-108-79594-4	●
Workbook	978-1-108-79049-9	●
<b>Psychology</b>		
Coursebook	978-1-316-60569-1	✓
Cambridge Elevate edition (2 Years)	978-1-316-60571-4	✓
Teacher's Resource CD-ROM	978-1-316-63794-4	✓
<b>Pre-U</b>		
Biology Coursebook Cambridge Elevate edition (2 Years)	978-1-316-61167-8	✓
Physics Coursebook Cambridge Elevate edition (2 Years)	978-1-316-60061-0	✓
Chemistry Coursebook Cambridge Elevate edition (2 Years)	978-1-316-62208-7	✓
<b>Teacher Development</b>		
Approaches to learning and teaching Science	978-1-316-64585-7	✓

- ✓ Endorsed by Cambridge Assessment International Education
- Working towards endorsement



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[cambridge.org/education/science2020](https://www.cambridge.org/education/science2020)



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