

Collins

Endorsed Resources Catalogue 2021

for Cambridge Assessment International Education



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Collins is proud to be an official publisher of endorsed resources for Cambridge Assessment International Education qualifications. As an endorsement partner, we work closely together with Cambridge International to develop a range of trusted and high calibre materials which offer teachers and learners across the world the possibility to make an informed choice on the best resources for them. Together we strive to help learners think bigger, reach higher and build a strong foundation for a lifetime of learning.

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**Cambridge Assessment
International Education**

Endorsed for full syllabus coverage

Look out for this logo on the front covers of our endorsed resources. All endorsed resources have been through a detailed quality assurance process, therefore you can be confident that all the learning objectives of the curriculum frameworks and syllabuses have been covered.

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Collins International



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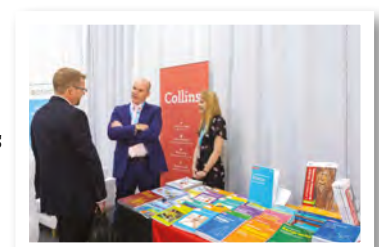
Cover Illustration

Celebrating 150 years since the birth of Ernest Rutherford, one of the greatest scientists and educators to have studied and taught at Cambridge University, we have chosen to showcase part of his alma mater, Trinity College Cambridge.



Conferences

As we're able to travel more, we're excited to be attending conferences again and meeting you in a safe and socially distanced manner. If you're unable to attend a conference where you usually would see us, please don't hesitate to get in touch with our reps for a virtual call where we can discuss how Collins can best support your school.



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35 Cambridge International AS & A Level Literature in English	56 Cambridge International AS & A Level Sociology
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38 Cambridge IGCSE English as a Second Language	58 Revision Guides
	58 Letts Cambridge IGCSE Revision Guides



Most of our endorsed resources are digitalised which allows for collaborative learning and an enhanced teaching experience. Look out for this eBook icon throughout the catalogue.

What's new



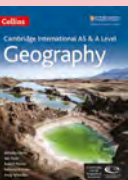
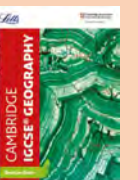
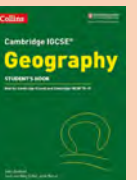
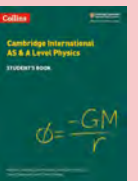
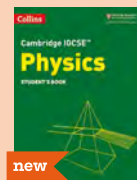
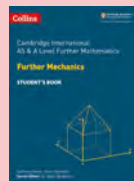
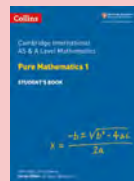
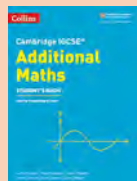
Every effort has been made to ensure details are correct at the time of going to press. Collins reserves the right to change the specifications and prices without further notification. Prices are subject to change.

Collins offers Cambridge International endorsed resources across a wide range of subjects along the Cambridge Pathway. We support students throughout their academic journey from primary all the way through to pre-university level.

Subject Areas	Cambridge Primary 5 to 11 years old*	Cambridge Lower Secondary 11 to 14 years old*	Cambridge Upper Secondary 14 to 16 years old*
Mathematics			
Sciences			
English	 		
English as a Second Language	 		
Technology			
Humanities, Professional and Social Sciences			
Languages			
Arts			

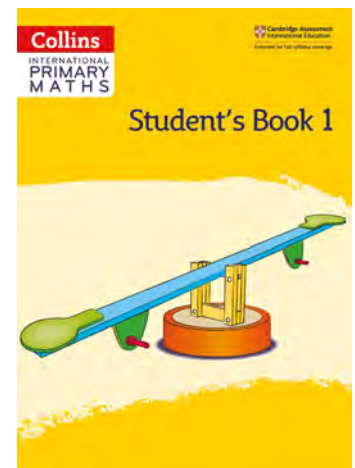
*Age ranges are for guidance only

Cambridge Advanced 16 to 19 years old*



We are working with Cambridge International towards endorsement of the titles marked as new in the table above.

new Collins International Primary Maths (0096) Second Edition



We are working with Cambridge Assessment International Education towards endorsement of this series.

Series Editor: Peter Clarke

Authors: Caroline Clissold, Paul Hodge, Lisa Jarmin

Offer full coverage of the new Cambridge Primary Mathematics curriculum framework and support best practice in primary maths teaching with Collins International Primary Maths.

Student's Books

- Provide an exciting theme with lessons based on a 'big idea' which is anchored in a real-life international context
- Help students to develop their 'Thinking and Working Mathematically' skills
- Offer opportunities for group and individual learning

Workbooks

- Challenge students with three levels of practice and knowledge consolidation
- Develop sense of self-study and discipline
- Offer an opportunity for personal reflection on progress

Teacher's Guides

- Ensure teacher professionalism and autonomy

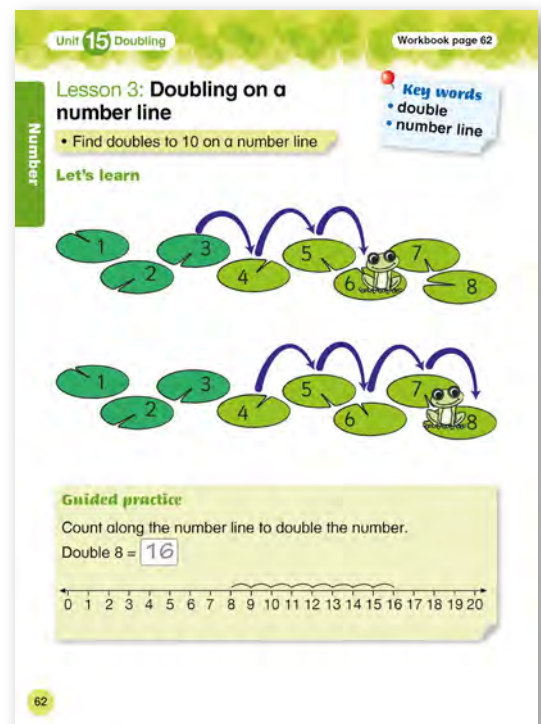
Progress Books

- Assessment questions allow learners to apply what they have learnt and demonstrate mastery and understanding of mathematical concepts

Teacher's Resource Plus

- Supplement your lessons with a wealth of digital assets including tools and games to make maths lively and engaging

Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Sample page from Student's Book 1



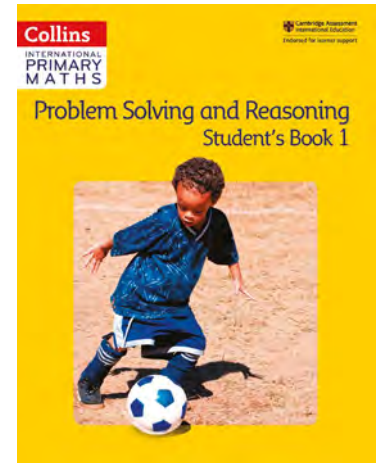
Also available for the current curriculum framework (0845). For a full list of titles and pricing information see order form at collins.co.uk/intcatalogues

Student's Books	ISBN	RRP	Workbooks	ISBN	RRP	Teacher's Guides	ISBN	RRP
Student's Book 1	978-0-00-834089-6	£7.99	Workbook 1	978-0-00-836945-3	£6.99	Teacher's Guide 1	978-0-00-836951-4	£40.00
Student's Book 2	978-0-00-836940-8	£7.99	Workbook 2	978-0-00-836946-0	£6.99	Teacher's Guide 2	978-0-00-836952-1	£40.00
Student's Book 3	978-0-00-836941-5	£7.99	Workbook 3	978-0-00-836947-7	£7.99	Teacher's Guide 3	978-0-00-836953-8	£40.00
Student's Book 4	978-0-00-836942-2	£7.99	Workbook 4	978-0-00-836948-4	£7.99	Teacher's Guide 4	978-0-00-836954-5	£40.00
Student's Book 5	978-0-00-836943-9	£7.99	Workbook 5	978-0-00-836949-1	£7.99	Teacher's Guide 5	978-0-00-836955-2	£40.00
Student's Book 6	978-0-00-836944-6	£7.99	Workbook 6	978-0-00-836950-7	£7.99	Teacher's Guide 6	978-0-00-836956-9	£40.00



For a full list of ISBNs and pricing for all components including eBooks, see online order form at collins.co.uk/intcatalogues

Collins International Primary Maths Problem Solving and Reasoning



These titles are **endorsed** by Cambridge Assessment International Education to provide learner support for the current Cambridge Primary Maths curriculum framework (0845).

Series Editor and Author: Peter Clarke

This series helps pupils grasp diverse mathematical concepts with problem solving and reasoning by completing activities categorised by topic and question type.

Student's Books

This series is fully aligned with the current Cambridge Primary Maths curriculum and can be used alongside the Collins International Primary Maths series.

These books contain three different types of mathematical problem-solving challenges:

Solving mathematical problems

Pupils solve problems 'within' mathematics itself, by recognising patterns and relationships, making conjectures and generalisations, and explaining and justifying conclusions.

Reasoning mathematically

Pupils use logical thinking to solve problems by focusing on making links between different aspects of mathematics and challenging themselves to explain using key mathematical terms.

Using and applying mathematics in real-world contexts

Pupils engage in challenges that require them to use and apply their mathematical knowledge and skills in open-ended, real-world contexts.

The image shows two sample pages from a student's book. The left page is titled 'Tessellating shapes' and features a challenge about tessellations, a 'Think about...' section with a girl thinking, and a 'What if?' question. The right page is titled '1 note and 3 coins' and features a challenge about money, a 'Think about...' section with a girl thinking, and a 'What if?' question. Both pages include icons for 'Shapes and geometric reasoning' and 'Solving mathematical problems'.

Sample pages from Student's Book 3

Student's Books	ISBN	RRP
Student's Book 1	978-0-00-827177-0	£5.99
Student's Book 2	978-0-00-827178-7	£5.99
Student's Book 3	978-0-00-827179-4	£5.99

Student's Books	ISBN	RRP
Student's Book 4	978-0-00-827180-0	£5.99
Student's Book 5	978-0-00-827181-7	£5.99
Student's Book 6	978-0-00-827182-4	£5.99



See order form for a full list of eBooks available at collins.co.uk/intcatalogues

new Collins International Primary Science (0097)



Second Edition

We are working with Cambridge Assessment International Education towards endorsement of this series.

Series Editor: Karen Morrison

Authors: Tracey Baxter, Sunetra Berry, Pat Dower, Helen Harden, Pauline Hannigan, Anita Loughrey, Fiona MacGregor, Emily Miller, Jonathan Miller, Karen Morrison, Daphne Paizee, Anne Pilling, Pete Robinson, Phillipa Skillicorn, Tracy Wiles

Spark scientific curiosity from a young age with this six-level course through an enquiry-based approach and active learning. The series is organised into four main strands: Biology, Chemistry, Physics and Earth and Space.

Student's Books

- Offer differentiated activities for each unit and continuous assessment throughout
- Help pupils to actively learn through practical activities that don't require specialist equipment or labs
- Fully cover the new curriculum framework with Earth and Space context
- Deepen and enhance the delivery of scientific skills with Thinking and Working Scientifically section

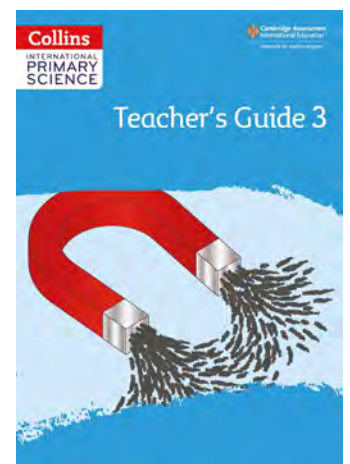
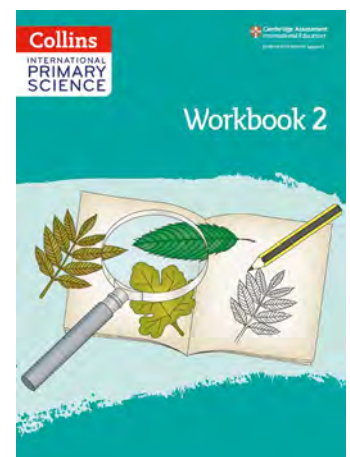
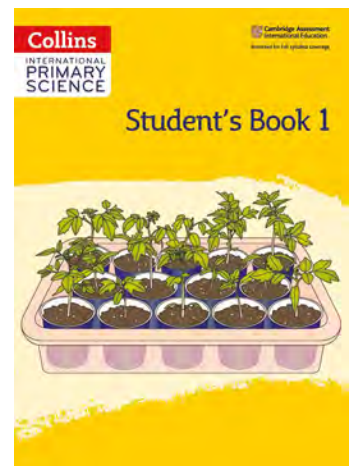
Workbooks

- Clear navigation to the corresponding Student's Book page labelled in the Workbook
- Provide opportunities to deepen understanding and build on prior knowledge
- Include language development activities to help build scientific vocabulary

Teacher's Guides

- Deliver consistent lessons with clear lesson plans as well as continuous assessment opportunities
- Slideshows, video clips, additional photographs and interactive activities are included in the ebook version of the Teacher's Guide

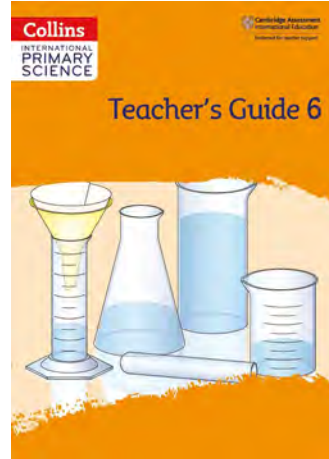
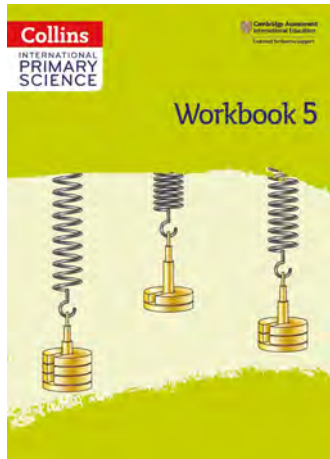
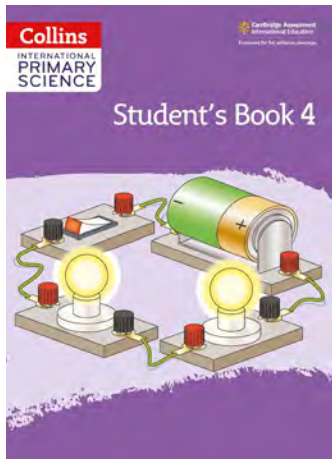
Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Student's Books	ISBN	RRP	Workbooks	ISBN	RRP	Teacher's Guides	ISBN	RRP
Student's Book 1	978-0-00-834090-2	£7.99	Workbook 1	978-0-00-836893-7	£3.99	Teacher's Guide 1	978-0-00-836899-9	£50.00
Student's Book 2	978-0-00-836888-3	£7.99	Workbook 2	978-0-00-836894-4	£3.99	Teacher's Guide 2	978-0-00-836900-2	£50.00
Student's Book 3	978-0-00-836889-0	£7.99	Workbook 3	978-0-00-836895-1	£3.99	Teacher's Guide 3	978-0-00-836901-9	£50.00
Student's Book 4	978-0-00-836890-6	£7.99	Workbook 4	978-0-00-836896-8	£3.99	Teacher's Guide 4	978-0-00-836902-6	£50.00
Student's Book 5	978-0-00-836891-3	£7.99	Workbook 5	978-0-00-836897-5	£3.99	Teacher's Guide 5	978-0-00-836903-3	£50.00
Student's Book 6	978-0-00-836892-0	£7.99	Workbook 6	978-0-00-836898-2	£3.99	Teacher's Guide 6	978-0-00-836904-0	£50.00



See order form for a full list of eBooks available at collins.co.uk/intcatalogues



Build Science vocabulary with key words 'post-its'

Active learning underpins all aspects of teaching



Science in context



6.3 Science and the environment

Large parts of the planet **Earth** are covered in **water**. Water is very important. Animals, humans and plants all need water to survive.

1 Look at the picture. What does it show?

Some places on the Earth do not have much water.

2 Look at the pictures. ▲ Describe what you can see.


3 How are the places different?

4 What do you think it is like to live in these places?


Key words

- Earth
- water
- waste
- save

We can use what we know about science to help the world around us. We know that water is important so we must not **waste** it. We can do things to help **save** water.



5 Look at the picture. ▲ How does it say we can save water?



6 What could this girl do to save water while brushing her teeth?

Activities

1 Play a game about how we can waste water and how we can save water.

2 Design a game. Think of the different ways that we waste water and ways that we can save water. Then play your game.

3 Design a poster to help people save water. Draw pictures and add labels to explain the ways we can save water.

I have learned

- Water is important for all living things on Earth.
- We can help the planet by saving water.

88 89

Photo-rich spreads show science in real-life contexts

Topic summary for concise synopsis and continuous learning

Sample pages from Student's Book 1



Also available for the current curriculum framework (0846). For a full list of titles and pricing information see order form at collins.co.uk/intcatalogues

new Collins International Primary English (0058) Second Edition



We are working with Cambridge Assessment International Education towards endorsement of this series.

Series Editor: Daphne Paizee

Authors: Catherine Baker, Jan Gallow, Daphne Paizee, Joyce Vallar

Ensure full coverage of the new Cambridge Primary English curriculum framework with Collins International Primary English – a six-level, multi-component course, which has been carefully developed to meet the needs of teachers and students in the international market.

Student's Books

- Ensure learners follow a clear structure with smooth progression through levels
- Showcase and discuss carefully selected fiction and non-fiction texts
- Offer carefully differentiated activities to develop confidence and competence

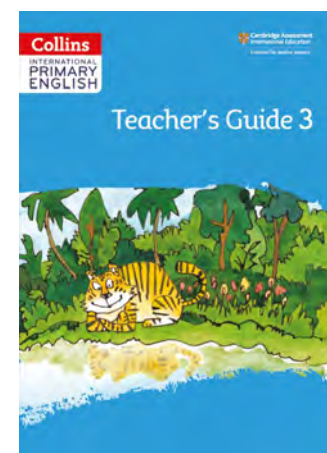
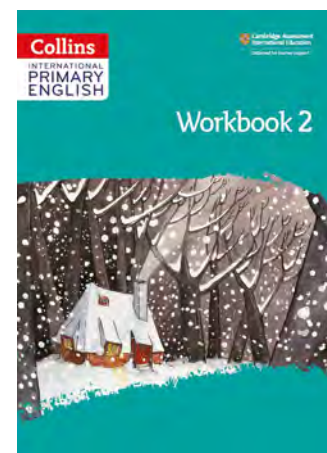
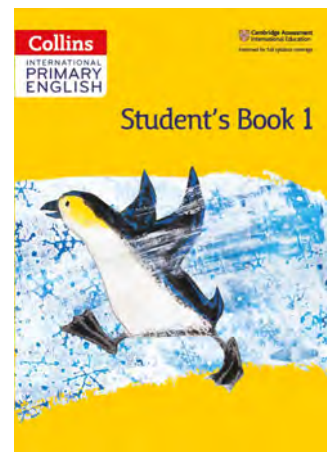
Workbooks

- Provide additional material for practice and reinforcement
- Link together exercises and activities to corresponding Student's Book
- Offer opportunities to build and develop all key skills

Teacher's Guides

- Deliver comprehensive lessons with easy-to-follow lesson plans and suggestions for class activities
- Extend and support learning with audio files, slideshows and printable worksheets available from the Collins website

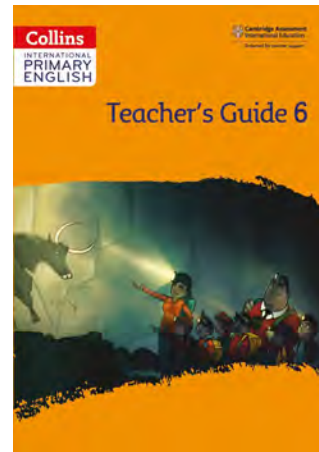
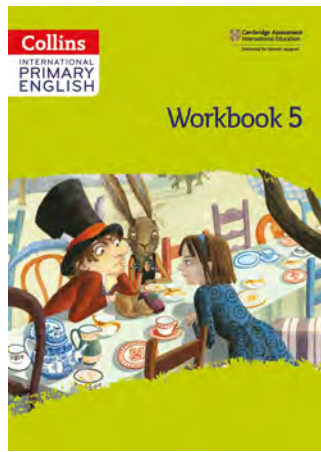
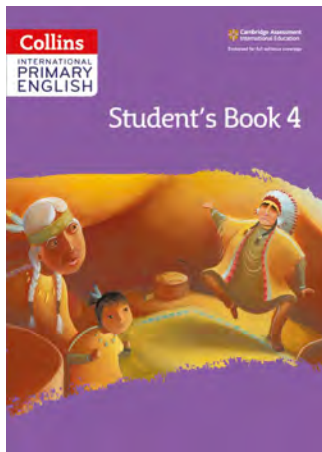
Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Student's Books	ISBN	RRP	Workbooks	ISBN	RRP	Teacher's Guides	ISBN	RRP
Student's Book 1	978-0-00-834088-9	£7.99	Workbook 1	978-0-00-836769-5	£3.99	Teacher's Guide 1	978-0-00-8367756	£36.00
Student's Book 2	978-0-00-836764-0	£7.99	Workbook 2	978-0-00-836770-1	£3.99	Teacher's Guide 2	978-0-00-8367763	£36.00
Student's Book 3	978-0-00-836765-7	£7.99	Workbook 3	978-0-00-836771-8	£3.99	Teacher's Guide 3	978-0-00-8367770	£36.00
Student's Book 4	978-0-00-836766-4	£7.99	Workbook 4	978-0-00-836772-5	£3.99	Teacher's Guide 4	978-0-00-836778-7	£36.00
Student's Book 5	978-0-00-836767-1	£7.99	Workbook 5	978-0-00-836773-2	£3.99	Teacher's Guide 5	978-0-00-836779-4	£36.00
Student's Book 6	978-0-00-836768-8	£7.99	Workbook 6	978-0-00-836774-9	£3.99	Teacher's Guide 6	978-0-00-836780-0	£36.00



See order form for a full list of eBooks available at collins.co.uk/intcatalogues



Carefully selected texts to provide both non-fiction and fiction discussion points

Simple and clear explanations

Visually appealing with the look and feel of a magazine rather than a textbook

9 Sights, sounds and feelings


Reading and speaking

1 Read these short poems aloud in groups.

A limerick

There was a young girl from Goole,
Who took her pet snake to school.
It squiggled and wriggled
And the whole class giggled.
Her teacher didn't think it was cool.

Anonymous



A calligram (a shape poem)

Spaghetti

The trouble with spaghetti is
it gets you in a fearful tizz,
for when you turn it round and round
until you think you've got it wound,
no matter how you twizzle it,
you always get one dangling bit.

by Noel Paddy

Poems

There are many different ways of writing poems. Some poets use patterns or shapes, others use rhyming words and rhythm.

Limericks

Limericks are nonsense poems. They all have the same pattern.

- There are always five lines.
- Lines 1, 2 and 5 have the same number of syllables and they rhyme.
- Lines 3 and 4 have the same number of syllables and they rhyme.

Calligrams

A calligram is a shape poem. The words in the poem are arranged in a shape or a picture.

An acrostic poem

Acrostic poems

Acrostic poems use the letters of a word or name. Each line of the poem starts with a letter from the name or word, rhythm.

I am Indra

Intelligent
Never sad
Dutiful
Interesting
Reliable
Annoying sometimes!

2 Which poem do you like best? Why?

- Did it make you laugh?
- Did it make you think?
- Was it fun to read aloud?
- Which poems have words that rhyme?

Write a poem

1 Work with a partner or alone. Write a shape poem or a limerick or an acrostic poem.

2 Display your poem in class and read it aloud to the class. Read with as much expression as possible. You want your classmates to enjoy the poems as much as you do!

Reading and listening

1 Listen and follow as your teacher reads these two poems by Judith Nicholls.

Riddle

I am
pear-drop
space-hopper
rest-on-a-tail,
fast as a rocket,
and what's in my pocket
small as a snail?
I'm shorter than elephant.

Taller than man,
I hop-step-and jump
as no creature can.
My jacket is fur,
my pocket too,
a joey hides there ...
I am
KANGAROO!

84 Read and recite poems. 85 Give a personal response. Write a poem.

Sample pages from Student Book 3

Engaging illustrations and photographs activate learners' imaginations

Fun suggestions for whole-class activities



Also available for the current curriculum framework (0844). For a full list of titles and pricing information see order form at collins.co.uk/intcatalogues



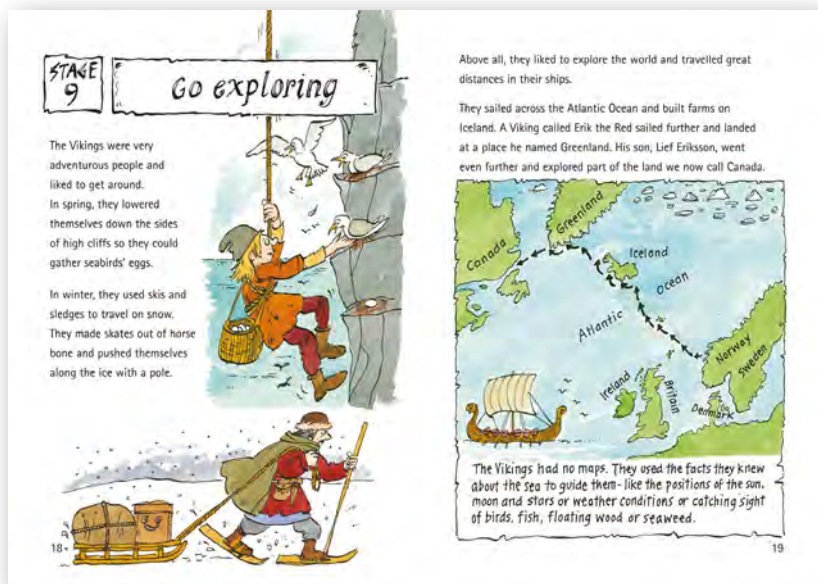
Collins
BIG CAT



The reading programme that provides complete support for primary reading

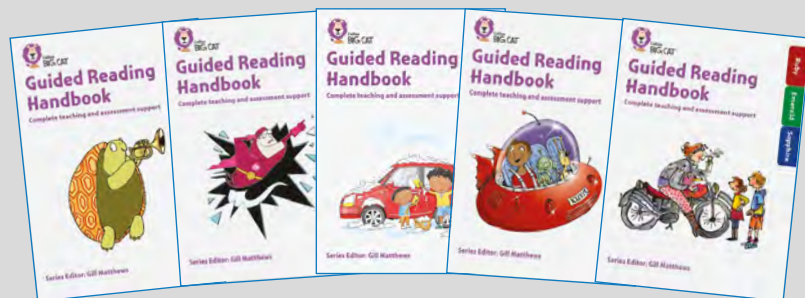
Collins Big Cat reading books are **endorsed** by Cambridge Assessment International Education to provide support for the reading strand of the current Cambridge Primary English curriculum framework (0844).

Collins Big Cat is the reading programme that is supporting children to learn to read in thousands of schools worldwide. Discover fantastic fiction and non-fiction created by the biggest authors and illustrators. With over 1000 books across a wide variety of genres, illustrative styles and engaging formats, there is something for every reader.



Student's Books

- Develop key reading skills including inference and deduction through comprehensive teaching and assessment support
- High-quality fiction and non-fiction includes a variety of genres to support teaching across the curriculum
- The range of targeted Big Cat strands ensures readers of all needs and abilities are supported
- Digital resources offer an enhanced reading experience – new eBooks now available



Guided Reading Handbooks

Provide a continuous programme of teaching and assessment with in-depth teaching resources to accompany every book in the series.



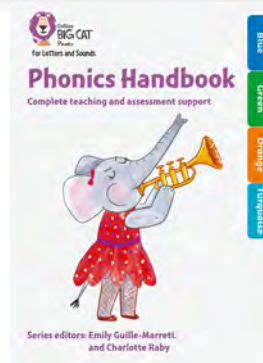
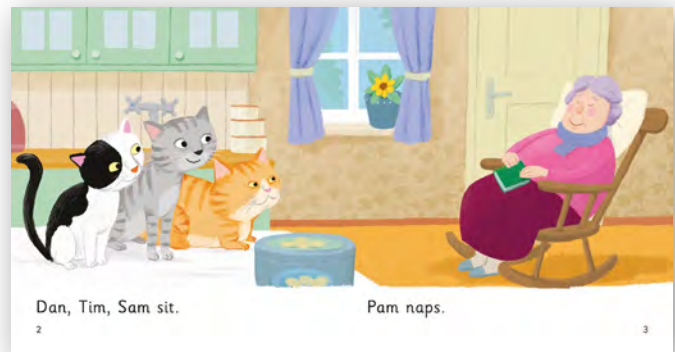
A secure start to every child's reading journey

Complete support for early reading development through 300 fully decodable books and two comprehensive Phonics Teacher Handbooks.

- Includes fiction and non-fiction books, from lilac to turquoise book bands, fully aligned to Letters and Sounds (Phases 1-6) for complete practice of all the required phonemes
- Practise and consolidate words and phonemes, model fluency and check comprehension with the clear and simple reading notes provided inside every book
- Teacher Handbooks available for integrating Collins Big Cat Letters and Sounds into your phonics teaching

Best-loved Big Cat titles in larger format, perfect for whole-class engagement and with shared reading activities

new titles



Challenge your high-attaining pupils with White and Lime Plus banded readers

new titles

- Encourage readers with age-appropriate fiction for pupils who are ready for higher reading levels
- Build reading stamina through longer texts and more complex plot structures
- Broaden vocabulary and expand inference and deduction skills ahead of upper primary



For more information about Collins Big Cat and its range of readers go to collins.co.uk/CollinsBigCat

new Collins Explore English (0057)



We are working with Cambridge Assessment International Education towards endorsement of this series.

Authors: Sandy Gibbs, Robert Kellas, Karen Morrison, Daphne Paizee

Explore English has been written with a range of international contexts in mind and offers progression within and across levels. The course offers full coverage of the new Cambridge Primary English as a Second Language curriculum framework.

Student's Resource Books

- Provide excitement and enjoyment with a visually appealing magazine-style book
- Showcase and discuss a range of carefully selected fiction and non-fiction reading texts on a variety of age-appropriate topics
- Activate imaginations and help create an inclusive learning environment
- Challenge learners to think deeply and communicate their ideas and opinions
- Extend learning with audio files available as a free download

Student's Coursebooks

- Develop and consolidate learning with write-in coursebooks containing varied activities and exercises
- Use in conjunction with the Student's Resource Book
- Develop language skills with an emphasis on practical communication

Teacher's Guides

- Provide carefully designed scheme of work, with clear mapping to the new curriculum framework
- Deliver tailored lessons with comprehensive lesson plans and concise learning outcomes that give step-by-step guidance
- Support and extend students' learning with photocopiable worksheets
- Answer keys for Coursebook exercises included in each unit

Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Resource Books	ISBN	RRP	Coursebooks	ISBN	RRP	Teacher's Guides	ISBN	RRP
Resource Book 1	978-0-00-8340872	£6.99	Coursebook 1	978-0-00-836916-3	£7.99	Teacher's Guide 1	978-0-00-836922-4	£50.00
Resource Book 2	978-0-00-836911-8	£6.99	Coursebook 2	978-0-00-836917-0	£7.99	Teacher's Guide 2	978-0-00-836923-1	£50.00
Resource Book 3	978-0-00-836912-5	£6.99	Coursebook 3	978-0-00-836918-7	£7.99	Teacher's Guide 3	978-0-00-836924-8	£50.00
Resource Book 4	978-0-00-836913-2	£6.99	Coursebook 4	978-0-00-836919-4	£7.99	Teacher's Guide 4	978-0-00-836925-5	£50.00
Resource Book 5	978-0-00-836914-9	£6.99	Coursebook 5	978-0-00-836920-0	£7.99	Teacher's Guide 5	978-0-00-836926-2	£50.00
Resource Book 6	978-0-00-836915-6	£6.99	Coursebook 6	978-0-00-836921-7	£7.99	Teacher's Guide 6	978-0-00-836927-9	£50.00



See order form for a full list of eBooks available at collins.co.uk/intcatalogues



Interesting fiction and non-fiction texts on a wide range of international topics

Plenty of opportunities for reflection and learning

In the rainforest

Read this brochure to learn more about rainforests.

Rainforests are found near the equator in Africa, Asia, Australia and Central and South America. The largest rainforest in the world is the Amazon rainforest.

Join us on one of our spectacular rainforest tours!

My name is Carlos. I'm the guide for the night walking tours. If you want to go on an adventure of a lifetime, the rainforest is for you!

- You will learn about nature.
- You will get up close to plants and animals.
- You will make new friends and you will be left with wonderful memories!



What is the rainforest like?

Rainforests have four levels. Our tours take you through the understory layer. We are going to look up to the canopy and also examine the forest floor as we walk through this layer.

The emergent layer and tall canopy are like a roof of branches and leaves very high above the forest floor.

The floor is dark and damp because very little sunlight reaches it. Most of the floor is covered with rotting leaves and other decaying vegetation.



What animals live there?

Each level of the rainforest is home to different kinds of animals.

Monkeys, frogs, lizards, birds, snakes and sloths are found in the canopy and emergent layer.

Bigger animals such as forest elephants, tapirs, jaguars and leopards live in the understory layer.

Lots of insects and spiders live on the floor. This is also home to giant anteaters.

What happens after dark?

At night the rainforest really comes alive.

All the bats wake up. They like to fly in the dark. They hunt moths and insects. A hungry bat eats hundreds of insects in a night.

Lightning bugs wink and shine like little lights. A lightning bug flashes its light on and off to say it is looking for a mate.

Lots of snakes come out at night. They can see in the dark. Some slide and slither up trees. If a snake sees a frog, it sneaks up and grabs it in its mouth.

Grasshoppers climb in the trees at night. They have long feelers to help feel their way in the dark and find plants to eat. Frogs, bats and tarantulas eat grasshoppers.

This tree frog has sticky fingers to help it climb trees. It can see in the dark and looks for moths, grasshoppers and small insects to eat.

Fact
Rainforests only cover 6% of Earth but more than half the Earth's plant and animal species are found there. Scientists have found over 30 million different species of plants in these forests.

Would you like to take a walk through a rainforest at night? Why? / Why not?



Colourful and eye-catching format

Sample page from Student Book 3



Also available for the current curriculum framework (0837). For a full list of titles and pricing information see order form at collins.co.uk/intcatalogues

new

Cambridge Lower Secondary Maths (0862)



Second Edition

We are working with Cambridge Assessment International Education towards endorsement of this series.

Series editor: Alastair Duncombe

Authors: Belle Cottingham, Alastair Duncombe, Rob Ellis, Amanda George, Claire Powis, Brian Speed

Develop students' maths mastery and confidence with this fully updated Lower Secondary Maths course offering comprehensive coverage of the new curriculum framework. A strong emphasis on 'Thinking and Working Mathematically' is integrated throughout.

Student's Books

- Offer worked examples with clear and detailed explanations to build learner independence
- Provide students opportunities to review and consolidate learning and reflect on their progress
- Develop 'Thinking and Working Mathematically' skills, enabling learners to gain competence and confidence in maths

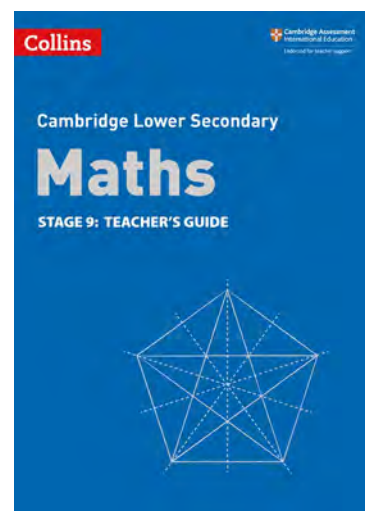
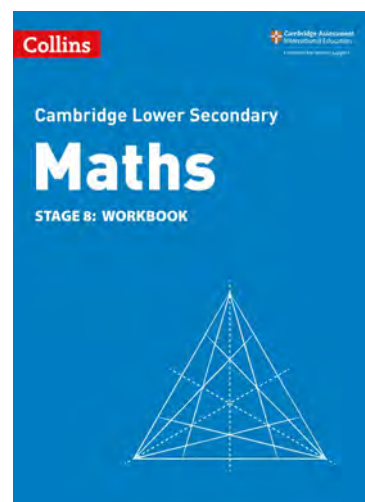
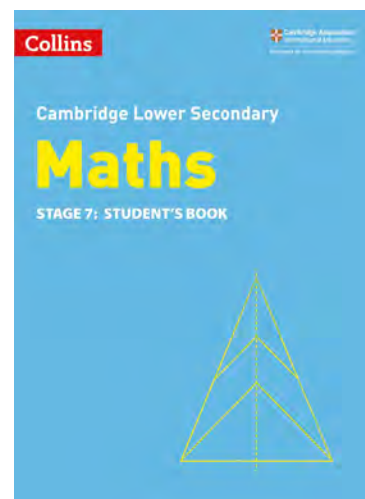
Workbooks

- Enable learners to fully master a topic before moving on with a variety of questions
- Support students in their own work with pointers and pictorial representations included in the Workbook
- Can be used in class or as homework to support secure learning

Teacher's Guides

- Plan your teaching effectively with clear learning objectives throughout the course with guidance provided
- Promote and assess the Cambridge 'Thinking and Working Mathematically' characteristics through the course
- Ideas for starter activities and discussions, notes on common errors, support and extension ideas and end-of-chapter topic reviews included

Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Check readiness to start with prerequisite knowledge list and topic links

Engage learners with group and pair activities to awaken mathematical curiosity

Build mathematical skills and confidence with Thinking and Working Mathematically characteristics through specially designed activities

15 Area and volume

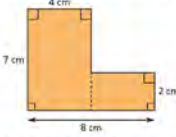
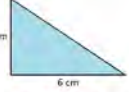
You will learn how to:

- Understand the relationships and convert between metric units of area, including hectares (ha), square metres (m²), square centimetres (cm²) and square millimetres (mm²).
- Derive and know the formula for the area of a triangle. Use the formula to calculate the area of triangles and compound shapes made from rectangles and triangles.
- Derive and use a formula for the volume of a cube or cuboid. Use the formula to calculate the volume of compound shapes made from cuboids, in cubic metres (m³), cubic centimetres (cm³) and cubic millimetres (mm³).
- Use knowledge of area, and properties of cubes and cuboids to calculate their surface area.

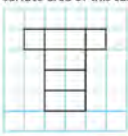
Starting point

Do you remember...

- how to use suitable metric measures? For example, which unit of measurement would be best to measure the height of a house?
- how to convert between different metric measures? For example, how many cm are in 16 m?
- how to multiply and divide by powers of 10? For example, divide 23 by 1000.
- how to find the area of a rectangle and the area of a right-angled triangle? For example, find the area of these shapes.

- how to find the surface area of simple cubes and cuboids from their nets? For example, find the surface area of this cuboid drawn on a centimetre grid.



This will also be helpful when...

- you learn how to calculate the areas of other shapes and solve problems involving areas
- you learn how to find the volume of any prism and solve problems involving volume.

Chapter 15: Area and Volume 161

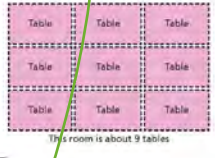
Worked examples cater to different learning styles with formal, narrative and pictorial methods

15.0 Getting started

How good are you at estimating area?

Decide in your class on a rectangular area to measure, like a table or a notice board. Ask your teacher to measure it for the class. This is your new measure of area, one table!

Each member of the class should estimate how many times the table or notice board will fit onto the floor. Now ask your teacher to measure the floor to find its area. Divide this by the area of the table or notice board to see how many would fit onto the floor. See who is the best estimator.



15.1 Converting between units of area

Thinking and working mathematically activity

- A square has sides measuring 4 cm. Find the area in cm².
- Convert 4 cm to millimetres and then find the area of the square in mm².
- Draw some rectangles and find their areas in cm² and mm².
- Make a conclusion about how to convert an area from cm² to mm².

Predict how to convert an area from m² to cm². Explain your prediction to a partner.

Conversion between units of area

1 cm² = 100 mm²
 1 m² = 10 000 cm²
 1 km² = 1 000 000 m²

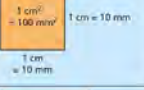
Key terms

Large areas, such as fields, are measured in hectares (ha). A hectare is an area of land equivalent to a square measuring 100 m by 100 m. 1 hectare = 10 000 m².

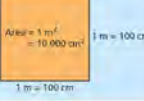
Worked example 1

a) Convert 0.28 cm² to mm²
 b) Convert 13 600 cm² to m²

a) 0.28 cm² = 0.28 × 100 1 cm² = 10 × 10 = 100 mm²
 = 28 mm² To convert cm² to mm², you multiply by 100.



b) 13 600 cm² = 13 600 ÷ 10 000 = 1.36 m²
 1 m² = 100 × 100 = 10 000 cm²
 To convert cm² to m², you divide by 10 000.



Did you know?

Hectares are used to measure areas of land. Some countries also use acres as a unit of land area.

162 Stage 7: Student's Book

Sample pages from Student's Book 7

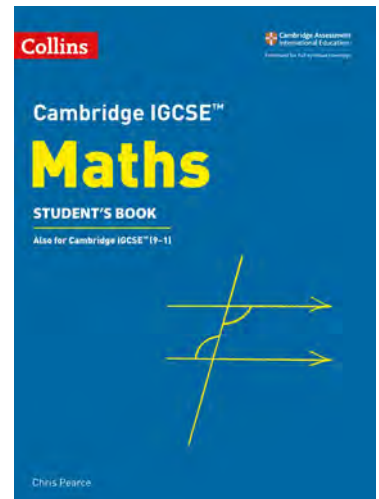


Also available for the current curriculum framework (1112). For a full list of titles and pricing information see order form at collins.co.uk/intcatalogues

Student's Books	ISBN	RRP
Stage 7	978-0-00-834085-8	£16.99
Stage 8	978-0-00-837854-7	£16.99
Stage 9	978-0-00-837855-4	£16.99
Workbooks	ISBN	RRP
Stage 7	978-0-00-837856-1	£10.99
Stage 8	978-0-00-837857-8	£10.99
Stage 9	978-0-00-837858-5	£10.99
Teacher's Guides	ISBN	RRP
Stage 7	978-0-00-837859-2	£100.00
Stage 8	978-0-00-837860-8	£100.00
Stage 9	978-0-00-837861-5	£100.00

eBooks	ISBN	RRP
Student's Books		
Stage 7	978-0-00-837862-2	£12.00
Stage 8	978-0-00-837863-9	£12.00
Stage 9	978-0-00-837864-6	£12.00
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Stage 8	978-0-00-837866-0	£70.00
Stage 9	978-0-00-837867-7	£70.00

Cambridge IGCSE™ Maths (0580/0980)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Authors: Chris Pearce and Isabel Marsden

Cambridge IGCSE Maths supports and challenges students with the Core curriculum and Extended curriculum together in one book.

Student's Book

- Develop problem-solving skills with flagged questions that require students to apply their knowledge
- Emphasise the relevance of maths with *Why this chapter matters* sections showing maths in everyday life or historical development
- Consolidate understanding with tried and tested questions in extensive practice exercises and detailed worked examples
- Deliver a fully international course with international examples, contexts, names, currency and locations
- Help learners understand complex mathematical terminology with clear key term definitions in a glossary

Teacher's Guide

- Deliver a fresh approach with detailed three-part lesson plans including clear syllabus references, common mistakes and remediation, and useful tips
- Raise standards with extra practice sheets with consolidation questions to support less able students and extended questions to stretch high achievers
- Supply ready-made homework for every lesson with printable and editable worksheets available to download
- Personalise the course with downloadable Word files to accommodate to schools' needs

Chapter 16 . Topic 2 16 . 2

16.2 Turning points on a quadratic graph

Here is the equation of the quadratic graph from Example 2: $y = x^2 + 2x - 3$
 In Section 13.5 you saw how to write expressions like $x^2 + 2x - 3$ in completed square form.
 $y = x^2 + 2x - 3 = (x + 1)^2 - 1 - 3$
 $= (x + 1)^2 - 4$
 Now $(x + 1)^2 \geq 0$ and only equals 0 when $x = -1$
 This means that $x^2 + 2x - 3$ has a minimum value of -4 when $x = -1$
 This means that $(-1, -4)$ on the graph of $y = x^2 + 2x - 3$
 It is called a **turning point**.
 It is a point where the graph changes direction.

Advice and Tips
 Look at Section 13.5 if you have forgotten how to do this.

Example 3
 a Find the turning point of the graph of $y = x^2 - 3x - 3$
 b sketch the graph of $y = x^2 - 3x - 3$
 a Write $x^2 - 3x - 3$ in completed square form.
 $x^2 - 3x - 3 = (x - 1.5)^2 - 1.5^2 - 3$
 $= (x - 1.5)^2 - 5.25$
 $(x - 1.5)^2 = 0$ when $x = 1.5$ and so the turning point is $(1.5, -5.25)$
 b To find a point on the curve, let $x = 0$ and then $y = -3$
 Hence $(0, -3)$ is on the curve.
 You can draw a sketch using $(1.5, -5.25)$ and $(0, -3)$.

Notice that, by symmetry, $(3, -3)$ is also on the curve.

Chapter 16: Graphs of functions 285

Sample page from Student's Book



Cambridge IGCSE™ Maths Revision Guide

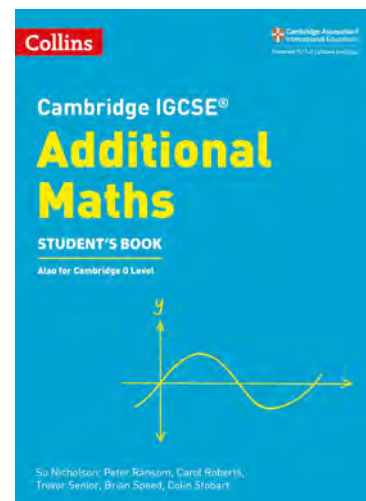
For more information see page 58.

This resource is **endorsed for revision** by Cambridge International to support the full syllabus for examination from 2020.

Revision

Cambridge IGCSE Maths	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-825779-8	£25.99	Student's Book	978-0-00-838331-2	£18.00
Teacher's Guide	978-0-00-825780-4	£100.00	Teacher's Guide	978-0-00-838332-9	£70.00
Revision Guide	978-0-00-821034-2	£10.99			

Cambridge IGCSE™ Additional Maths (0606/4037)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Authors: Su Nicholson, Peter Ransom, Carol Roberts, Trevor Senior, Brian Speed, Colin Stobart, David Bird and Claire Powis

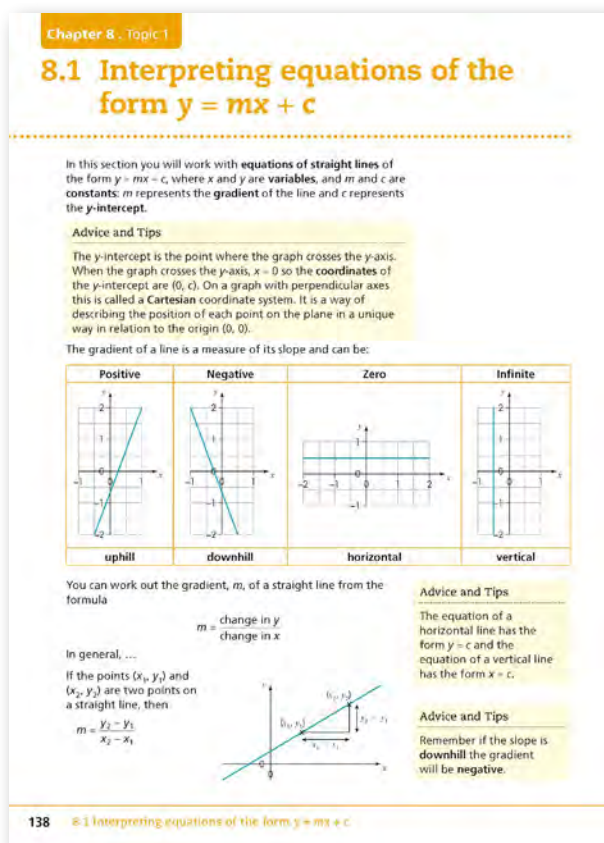
Support students working towards Cambridge IGCSE Additional Mathematics, for examination from 2020. This course also supports Cambridge O Level.

Student's Book

- Support students in developing problem-solving skills with flagged questions and a problem-solving in context feature
- Show students how maths is used in everyday life or historical developments with *Why this chapter matters* sections
- Help students prepare for examination with a set of exam-style questions at the end of every chapter
- Deliver a fully international course with international examples, contexts, names, currency and locations
- Stretch students' skills and understanding with flagged extension questions in both the practice exercises and the chapter review questions

Teacher's Guide

- Deliver detailed lesson plans that comment on common mistakes and provide remediation
- Provide extension activity sheets to challenge and stretch more able students
- Supply ready-made homework with printable and editable worksheets available to download
- Personalise the course with downloadable Word files to accommodate to schools' needs

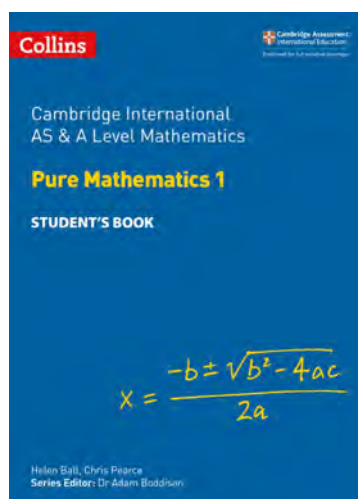


Sample page from Student's Book

Cambridge IGCSE Additional Maths ISBN 978-0-00-825782-8 RRP £24.99
 Student's Book ISBN 978-0-00-825783-5 RRP £100.00
 Teacher's Guide

eBooks ISBN 978-0-00-838333-6 RRP £17.50
 Student's Book ISBN 978-0-00-838334-3 RRP £70.00
 Teacher's Guide

Cambridge International AS & A Level Mathematics (9709)



These resources are **endorsed** by Cambridge Assessment International Education to support the syllabus for examination from 2020.

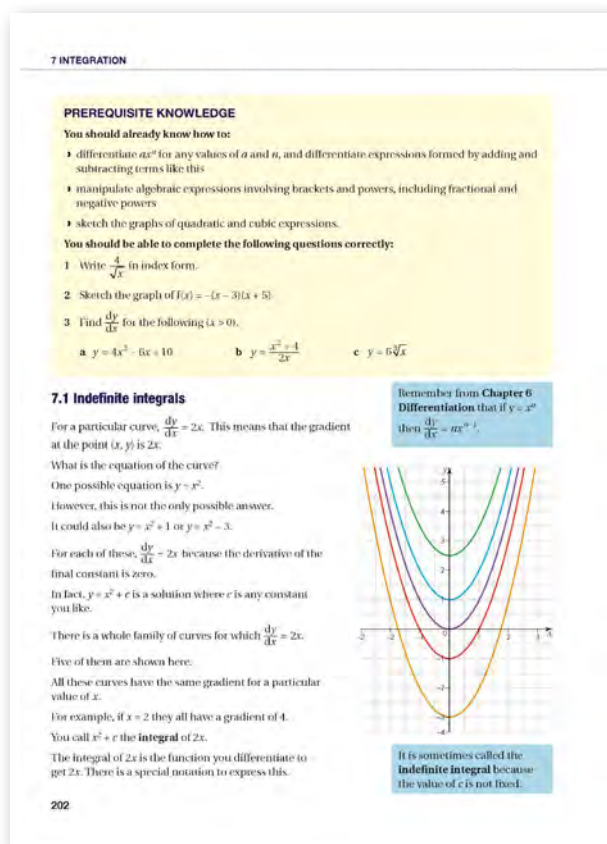
Series Editor: Dr Adam Boddison

Authors: Louise Ackroyd, Tom Andrews, Helen Ball, Chris Chisholm, Jonny Griffiths, Michael Kent, Sharon McBride and Chris Pearce

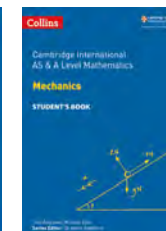
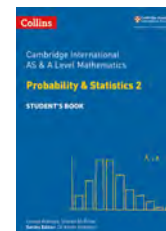
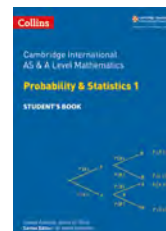
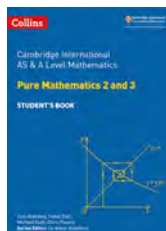
This five book series inspires and guides students to pursue STEM (science, technology, engineering and mathematics) careers with a Mathematics in Life and Work theme for each chapter, showing how mathematics is used in a range of careers and further study routes.

Student's Books

- Cover the complete content of the syllabus in five books: Pure Mathematics 1, Pure Mathematics 2 & 3, Statistics 1, Statistics 2 and Mechanics
- Develop the key skills of mathematical modelling, problem-solving and communication through dedicated questions and teaching
- Prepare students for examination with exam-style questions and carefully selected Cambridge past paper questions
- Assess readiness with prior knowledge checks and end-of-chapter summaries which test understanding
- Offer plenty of practice opportunities with clear explanations and worked examples on each topic with full workings available for each answer
- Provide clear progression from Cambridge IGCSE Mathematics



Sample page from Pure Mathematics 1 Student's Book



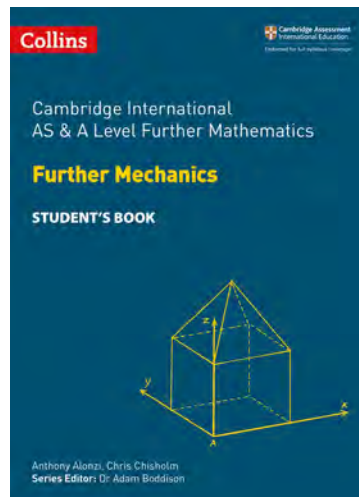
Student's Books

	ISBN	RRP
Pure Mathematics 1	978-0-00-825773-6	£19.99
Pure Mathematics 2 and 3	978-0-00-825774-3	£19.99
Statistics 1	978-0-00-825776-7	£19.99
Statistics 2	978-0-00-827187-9	£19.99
Mechanics	978-0-00-825775-0	£19.99

Student's Book eBooks

	ISBN	RRP
Pure Mathematics 1	978-0-00-834035-3	£14.00
Pure Mathematics 2 and 3	978-0-00-834036-0	£14.00
Statistics 1	978-0-00-834034-6	£14.00
Statistics 2	978-0-00-834037-7	£14.00
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Cambridge International AS & A Level Further Mathematics (9231)



These resources are **endorsed** by Cambridge Assessment International Education to support the syllabus for examination from 2020.

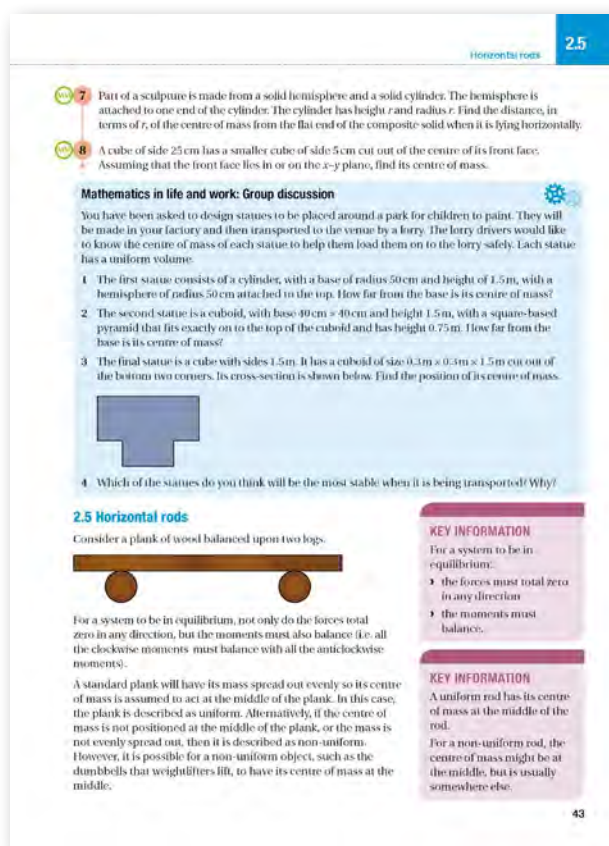
Series Editor: Dr Adam Boddison

Authors: Anthony Alonzi, Tom Andrews, Helen Ball, Chris Chisholm, Jonny Griffiths, Yimeng Gu, Michael Kent, Chris Pearce, Patrick Wallace

With a clear focus on Mathematics in Life and Work, this four book series builds the key mathematical skills and knowledge that will open a wide range of careers and further study.

Student's Books

- Cover the complete content of Further Pure Mathematics 1, Further Pure Mathematics 2, Further Probability & Statistics and Further Mechanics with clear references to what students will learn at the start of each chapter
- Set mathematics in real-world contexts that emphasise practical applications and career paths, with a Mathematics in Life and Work theme for each chapter
- Showcase how mathematics is relevant to different roles with inspiring case studies and discussion activities
- Help prepare students for examination with exam-style questions and carefully selected Cambridge past paper questions
- Build advanced skills with in-depth explanations for deep understanding, practice for fluency, and probing questions to develop flexible problem solving
- Provide clear progression to develop confident, independent and reflective mathematicians through extension questions and group discussions



Sample page from Further Mechanics Student's Book



Students Books

Further Pure Mathematics 1	978-0-00-825777-4	£19.99
Further Pure Mathematics 2	978-0-00-825778-1	£19.99
Further Probability and Statistics	978-0-00-827188-6	£19.99
Further Mechanics	978-0-00-827189-3	£19.99

ISBN

RRP

Student's Book eBooks

Further Pure Mathematics 1	978-0-00-834031-5	£14.00
Further Pure Mathematics 2	978-0-00-834032-2	£14.00
Further Probability and Statistics	978-0-00-834033-9	£14.00
Further Mechanics	978-0-00-834039-1	£14.00

ISBN

RRP

new **Cambridge Lower
Secondary Science (0893)**
Second Edition



We are working with Cambridge Assessment International Education towards endorsement of these titles.

Authors: Heidi Foxford, Aidan Gill, Amanda Graham, Mark Levesley, Chris Meunier, Beverley Rickwood, Nigel Saunders, Sheila Tarpey, Dorothy Warren, Gemma Young

Build a strong foundation in scientific skills and key concepts with plenty of suggested practical investigations and integrated active learning, whilst providing comprehensive coverage of the new Cambridge Lower Secondary Science curriculum framework.

Student's Books

- Support students in their language needs with all key words clearly defined on the relevant page in the Student's Book
- Check understanding, consolidate learning and prepare for assessment with end of chapter and end of stage reviews
- Challenge and stretch students with differentiated questions for each topic, by linking to history, development, application and impact of science around the world

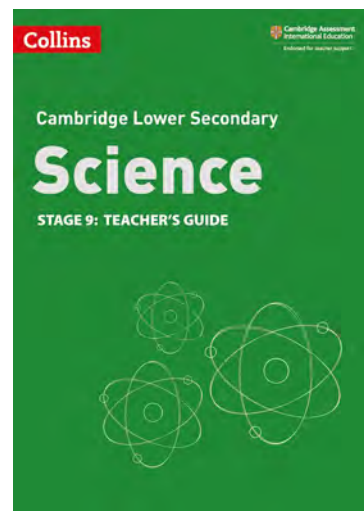
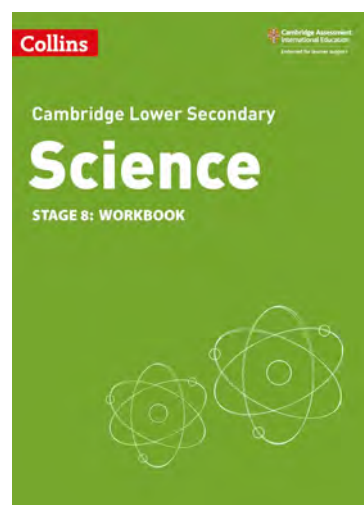
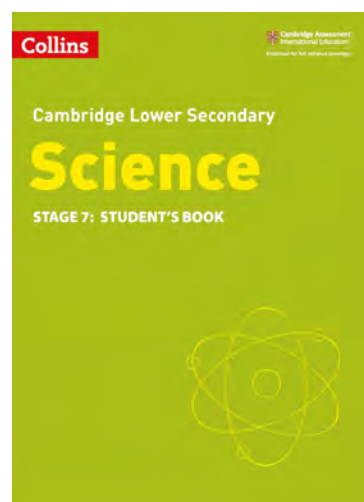
Workbooks

- Offer a full range of questions for every topic in the Student's Book
- Provide regular practice with supportive worked examples and writing frames
- Use flexibly for lessons, homework or additional practice

Teacher's Guides

- Deliver a fresh approach with carefully constructed learning outcomes and detailed lesson plan ideas
- Full support for practical work, with student sheets and comprehensive technician's notes available
- Answers to Student's Book and Workbook questions provided

Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Features at the start and end of topics encourage learners to reflect on their understanding and self-evaluate their progress

Key terms, definition boxes and a glossary provide support in language needs

Chapter 10 , Topic 4

The water cycle

Learning outcomes

- To describe the Earth's physical processes that involve water and how they form a cycle
- To understand a model of the Earth's water cycle

10.4

Starting point

You should know that...

On Earth, water evaporates, condenses and precipitates (falls as rain)


The formation and erosion of different types of rock form a rock cycle

You should be able to...

Describe how a model helps us to understand ideas in science

Use models, including diagrams, to describe processes and explain ideas in science

Evaporation, condensation and precipitation



10.23 Evaporation, condensation and precipitation.

Here are some of the processes that involve water on Earth (figure 10.23).

- Evaporation** is the process where some water molecules at the surface of a lake or ocean gain enough energy to break free from the surface. This causes water vapour to be present in the atmosphere.
- Condensation** is the process where water molecules in the air lose energy so that they gather together to form droplets of liquid water. This process leads to the formation of clouds.
- Precipitation** is the process where water droplets in the air grow large enough so that they fall to the ground or ocean surface as liquid or solid water.

Evaporation from the ocean increases when warm air blows across the water surface. The winds carry the water vapour across the ocean and sometimes over land. As the warm air rises, it cools, which leads to condensation. In particular, when winds blow warm, wet air from over the ocean onto areas of mountains, the air is forced upwards and cools quickly. This is why clouds often form over mountains near the sea.

The type of precipitation depends on the air temperature. If the temperature is above 0°C then the water droplets stay liquid and form rain. If the temperature is at or below 0°C then the liquid droplets partially or completely freeze to form sleet, snow or hail.

In Section 10.3, you considered which gases mix to make up the Earth's atmosphere. The percentages of each gas were for dry air. Dry air means 'air that contains no water'. In reality, the air around us will nearly always contain some water vapour. The amount depends on how much water evaporates into the air, and how much condenses to form precipitation that falls out of the air. This amount is different at different places on Earth, and the amount changes at each place with time, due to the local climate and weather.

1 Where does the energy come from that causes water in the oceans to evaporate?

2 Sometimes the air temperature is below 0 °C but the ground temperature is above 0 °C. Explain what happens to water that precipitates as snow or hail when it reaches the ground.

3 Look at figure 10.23. Make a sketch copy of the diagram and add arrows to show how evaporation, condensation and precipitation link together to move water from oceans to the air and back to the oceans.

4 Look at figure 10.23. Use a map of the Earth to find the Sahara Desert. Explain why places like the Sahara Desert remain so dry.

Water that falls on the surface of Earth

Some of the water that falls as precipitation ends up back in the oceans. We call water stored in the oceans **open water**, because it is not surrounded by land or ice and can move freely.

210 The Earth and its atmosphere

The water cycle 211

Signposted content enables good integration and linking of ideas

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Sample pages from Student's Book 9



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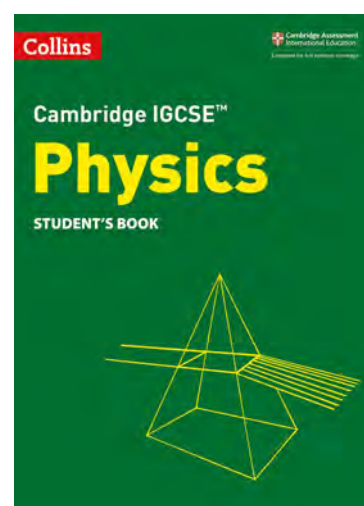
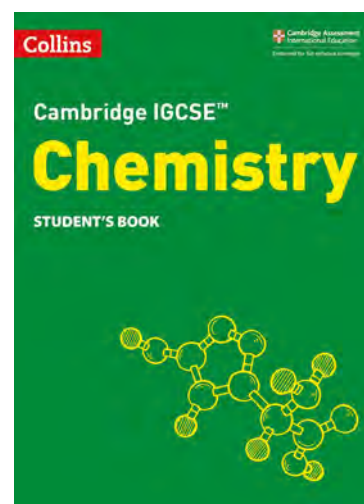
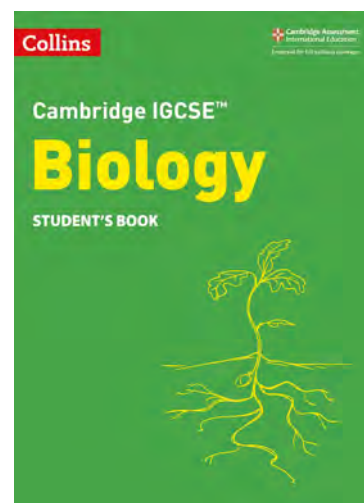
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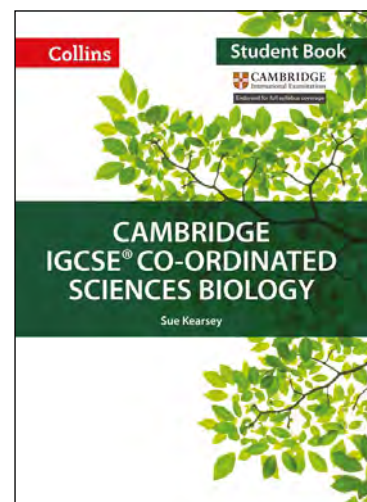
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PHOTOSYNTHESIS
Plant tissue contains the same types of chemical molecules (carbohydrates, proteins and lipids) as animal tissue. However, whereas animals eat other organisms to get the nutrients they need to make these molecules, plants make these molecules from basic building blocks, beginning with the process of **photosynthesis**.

EXTENDED
In photosynthesis, plants combine the raw materials carbon dioxide (from the air) and water (from the soil) to form glucose, a simple sugar and also a carbohydrate. This process transfers energy from light (usually from sunlight) into chemical energy in the bonds of the glucose. The light is absorbed by the green pigment **chlorophyll** in plants.

END OF EXTENDED
Photosynthesis is fundamental to almost all life on Earth, because most organisms other than plants get their energy from the chemical energy in the food that they eat, whether that is herbivores getting energy directly from plants, or carnivores consuming herbivores. Oxygen is also produced in photosynthesis. Although some is used inside the plant for respiration (releasing energy from food), most is not needed and is given out as a **waste product**. The process of photosynthesis can be summarised in a word equation:

$$\text{carbon dioxide} + \text{water} \xrightarrow[\text{light energy}]{\text{chlorophyll}} \text{glucose} + \text{oxygen}$$

EXTENDED
Photosynthesis can also be summarised as a balanced symbol equation:

$$6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow[\text{light energy}]{\text{chlorophyll}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$

REMEMBER
You will need to know, and be able to balance, the chemical equation for photosynthesis.

END OF EXTENDED

Fig 5.2 Anatomy of a plant.

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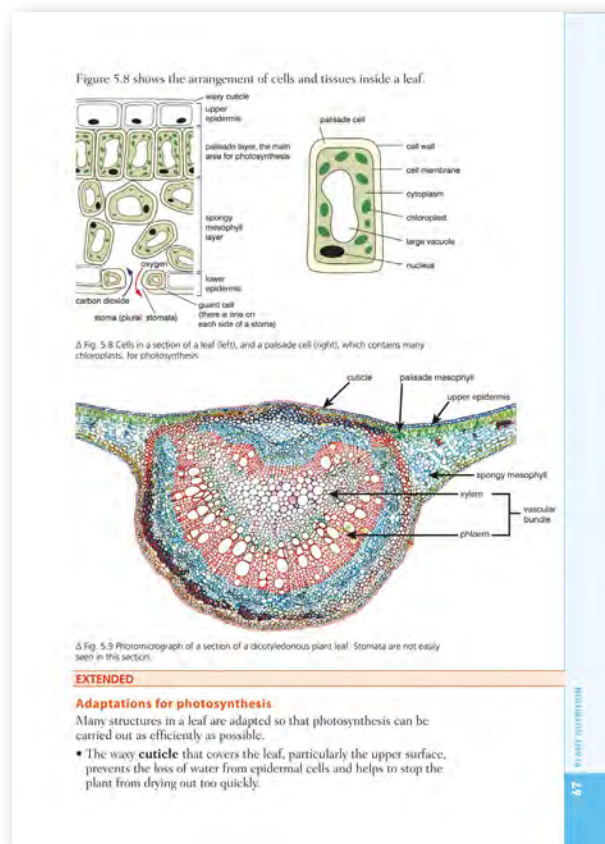
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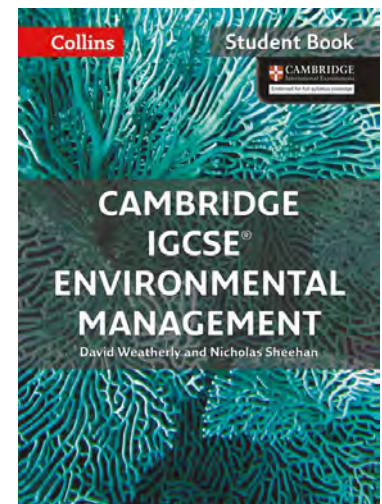
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- Match lessons to the syllabus learning outcomes with a detailed scheme of work
- Extension content and activities, lesson plans and more detailed case studies included



△ Fig. 1.3 Limestone is made up largely of calcium carbonate from the shells and skeletons of marine creatures such as this scallop. Limestone forms in clear, warm shallow seas where there is an abundance of life.

△ Fig. 1.4 Sandstone, such as this in Nevada, USA, consists almost entirely of small sand grains, usually quartz, cemented together by substances such as clay.

△ Fig. 1.5 Shale is consolidated mud, silt and clay. It is finely stratified, which means it splits easily into flat pieces.

Metamorphic rock

Sometimes the Earth's movements cause existing igneous and sedimentary rocks to be heated up and put under great pressure. This can cause a chemical change in their minerals and the formation of new metamorphosed rocks. Slate forms in this way from shale, and marble forms from limestone. Both rocks have important uses in construction and interior design.



△ Fig. 1.6 Slate being used for roofing.



△ Fig. 1.7 Marble being used for a kitchen surface.

The rock cycle

The rocks of the Earth's crust are constantly being changed and recycled. As soon as any 'new' rock is exposed to the physical, chemical and biological forces of weathering, it begins to be broken down into sediments. For example, physical weathering through exfoliation causes the surface layers of rocks to disintegrate as a result of constantly being heated and cooled. Rainwater containing dissolved CO₂ will remove limestone rock particles (chemical weathering) and the roots of trees and plants will, over time, pull apart joints and cracks in rock and cause biological



△ Fig. 1.8 The rock cycle.

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(9700/9701/9702)

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Biology (9700)

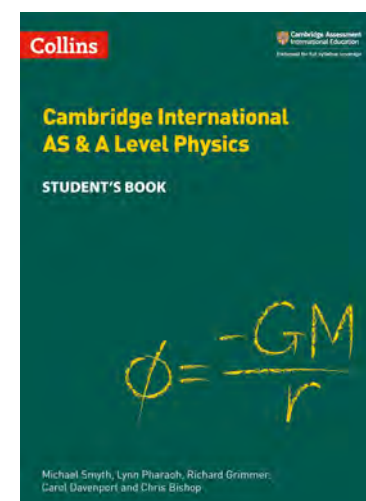
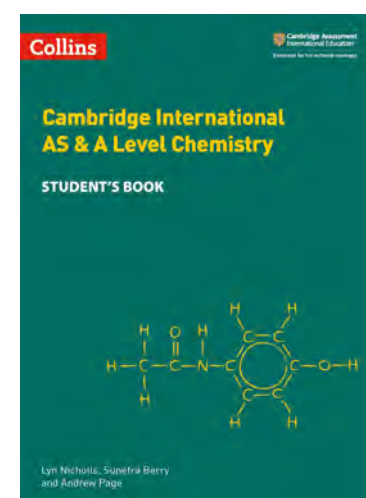
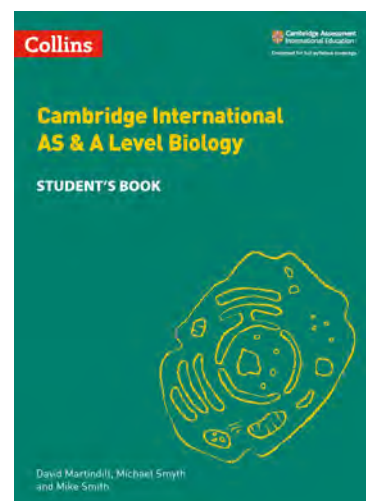
Topics include: cells, biochemical processes, DNA, natural selection, organisms interacting with their environment and observation and fieldwork.

Chemistry (9701)

Topics include: atoms & forces, chemical bonds, energy changes, experiments & evidence, and patterns in chemical behaviour and reactions.

Physics (9702)

Topics include: models of physical systems, forces & fields, testing predictions against evidence, mathematics as a language and problem-solving tool as well as matter, energy and waves.



I Cell structure

I.1 The microscope in cell studies

Although lenses have been used as magnifying glasses for at least a thousand years, the first microscopes were built around the start of the 17th century. Some used a single lens but others were compound microscopes that used two lenses: an objective lens and an eyepiece lens, very similar to many microscopes today.

Later in the 17th century, scientists used microscopes to make the first detailed observations of biological structures. In Italy, Marcello Malpighi studied the structure of animal and plant tissues and was the first person to see blood capillaries. Cells were discovered and named by Robert Hooke in England, who thought that what he saw in a thin slice of cork resembled the small rooms, or cells, that monks lived in. Antonie van Leeuwenhoek, a Dutch scientist, discovered bacteria, single-celled organisms called protists and sperm cells, as well as making many other detailed observations, for example of red blood cells and muscle fibres.

In the 20th century, **electron microscopes** were developed. These use a beam of electrons, rather than light, to produce an image, which shows much more detail than is possible with a light microscope. For example, the structure of viruses, which are much smaller than cells, was first seen using an electron microscope (although their existence had been known much earlier). A **transmission electron microscope (TEM)** passes electrons through a specimen to produce an image. A **scanning electron microscope (SEM)** detects electrons that have been reflected from the surface of a specimen to produce a 'three-dimensional' image.

Images produced using a microscope are called **micrographs**; images produced by a **light microscope** are called **photomicrographs** (Figure 1.1a); images produced by an electron microscope are called **electron micrographs** (Figures 1.1b, c).

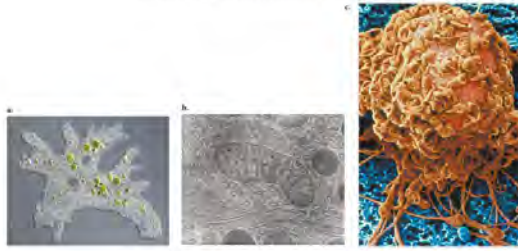


Figure 1.1 Micrographs of Amoeba, a single-celled organism, taken with a light microscope (a), a mitochondrion, taken with a TEM (b), a human egg cell covered with sperm cells, taken with a SEM (c).

1. Explain the difference between a photomicrograph and a photograph.
2. Look at Figure 1.1c. Explain how you can tell that the image has been taken with a SEM and not a TEM.

I.1 The microscope in cell studies

MAGNIFICATION AND RESOLUTION

Microscopes produce images larger than the original objects. This is called **magnification**. Although in theory there is no limit to how many times you can magnify an image, at some point you will stop seeing any more detail. The ability to see detail is a measure of the microscope's **resolution** (or resolving power). Think about a digital photograph: if you keep enlarging it, the magnification increases. However, when you get to the point where you can see the separate pixels, then greater magnification will not lead to greater resolution because you will not be able to see any more detail.

Magnification

Magnification is the number of times larger an image is than the actual object. For example, if the image of a cell is 50 mm long and the actual cell is 0.1 mm long, then the magnification is $\times 500$.

Magnification can be calculated using the equation:

$$\text{magnification} = \frac{\text{size of image}}{\text{size of object}}$$

The following units are used when measuring cells and cell structures: millimetres (mm), micrometres (μm) and nanometres (nm).

- One **millimetre** is one-thousandth of a metre.
- One **micrometre** is one-thousandth of a millimetre and one-millionth of a metre.
- One **nanometre** is one-thousandth of a micrometre, one-millionth of a millimetre and one-billionth of a metre.

This is summarised in Table 1.1.

Unit	Symbol	Comparison with 1 metre
millimetre	mm	$1 \text{ mm} = 1 \times 10^{-3} \text{ m}$ $1 \text{ m} = 1 \times 10^3 \text{ mm}$
micrometre	μm	$1 \mu\text{m} = 1 \times 10^{-6} \text{ m}$ $1 \text{ m} = 1 \times 10^6 \mu\text{m}$
nanometre	nm	$1 \text{ nm} = 1 \times 10^{-9} \text{ m}$ $1 \text{ m} = 1 \times 10^9 \text{ nm}$

Table 1.1 Units used when making microscope observations of biological specimens.

Worked example

- Convert 5000 nanometres to micrometres.

Answer

$1000 \text{ nm} = 1 \mu\text{m}$, so $5000 \text{ nm} = 5 \mu\text{m}$.

- Convert 72 millimetres to nanometres. Give your answer in standard form.

Answer

$1 \text{ mm} = 1 \times 10^9 \text{ nm}$, so $72 \text{ mm} = 72 \times 10^9 \text{ nm}$. In standard form this is $7.2 \times 10^{10} \text{ nm}$.

- The length of a sperm cell is measured as $50 \mu\text{m}$. Give the length, in standard form, in
 - a. mm
 - b. nm.
- The diameter of the nucleus in a human cell is approximately $9 \mu\text{m}$. An electron micrograph is made of the nucleus at magnification $\times 4000$.
 - Give the actual diameter of the nucleus in nanometres.
 - Calculate the diameter of the image of the nucleus. Give your answer in millimetres.

Human cells range in diameter from about $7 \mu\text{m}$ (red blood cell) to about $100 \mu\text{m}$ (egg cell). Bacteria cells, which are usually smaller than human cells, have diameters between $0.2 \mu\text{m}$ and $10 \mu\text{m}$.

Tip
Standard form is used to write very large or very small numbers in a shorter format. For example, $9\,000\,000$ in standard form is 9×10^6 and 0.000005 is 5×10^{-7} .

Tip
Always try to show your working in calculations, even if you are not specifically asked for it.

Tip
When writing in standard form, the first part of the number must be at least 1.0 but smaller than 10.

Tip
You may need to give an answer in different units from those in a question. For magnification calculations, make sure both the image and object measurements are in the same unit.

Sample pages from Biology Student's Book

I Atomic structure

I.1 Particles in the atom and atomic radius

ATOMIC STRUCTURE

Today, we know that atoms are mostly empty space. The central **nucleus** is very small and consists of **protons** and **neutrons**. **Electrons** are found in the empty space around the nucleus. Electrons are located in **shells**.

Figure 1.1 shows a model of an atom.

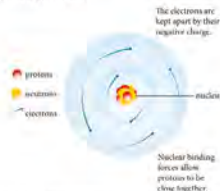


Figure 1.1 This is a model of an atom. Atoms of different elements have different numbers of protons, neutrons and electrons.

At the beginning of the 20th century, scientists considered atoms to be negatively charged electrons in a sphere of positively charged material. Protons and neutrons had not been discovered. The model was known as 'the plum pudding model' (Figure 1.2). Rutherford and other scientists working in the UK carried out an experiment to fire positively charged alpha particles at gold foil, about 2000 atoms thick. Based on the 'plum pudding' model, the alpha particles should pass straight through the foil. It was like firing bullets at tissue paper. To their surprise, not all alpha particles passed straight through. Some were deflected and a few were completely deflected backwards. Figure 1.3 shows their experiment.

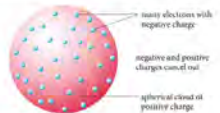


Figure 1.2 The 'plum pudding' model of the atom.

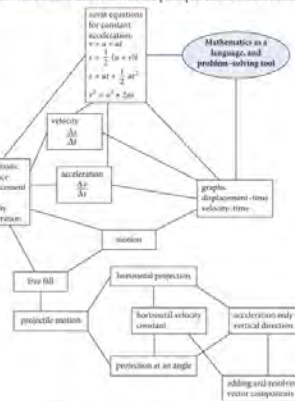
Chapter overview

Key ideas

- A projectile is an object acted on only by gravity.
- Projectile motion can be represented by resolving the velocity vector into components in the horizontal and vertical directions.
- Horizontal and vertical components of projectile motion are completely independent of each other.
- The horizontal component of velocity of a projectile remains constant with no acceleration.
- The vertical component of velocity of a projectile is affected only by the acceleration due to gravity.

CHAPTER OVERVIEW

Try copying this mind map and expanding it. Use your notes from other chapters to help you explore how the essential ideas, theories, and principles can be linked further together.



WHAT YOU HAVE LEARNED

- Define and use the terms distance, displacement, speed, velocity and acceleration.
- Use graphs to represent distance, displacement, speed, velocity and acceleration.
- Determine displacement from the area under a velocity-time graph.
- Determine velocity using the gradient of a displacement-time graph.
- Determine acceleration using the gradient of a velocity-time graph.

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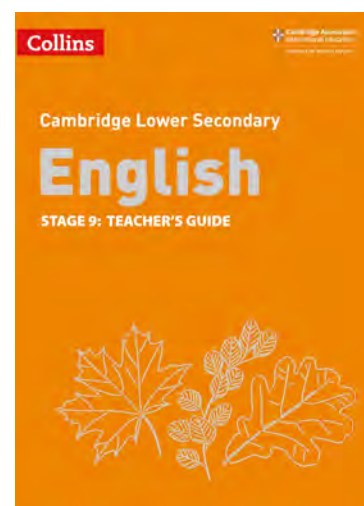
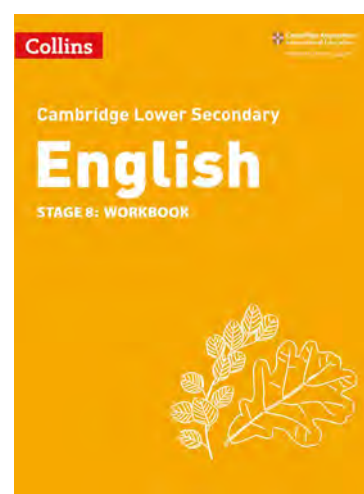
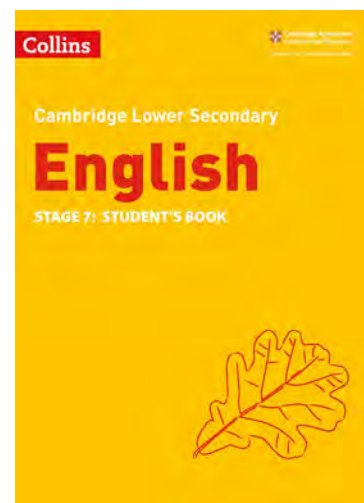
Workbooks

- Consolidate and extend students' learning with engaging practice activities and additional language support
- Designed for self-study or homework
- Write-in format aids revision and allows teachers to monitor students' progress

Teacher's Guides

- Make the most of resources with a clear lesson-by-lesson approach
- Differentiate easily with suggestions and ideas both in and out of the classroom
- Answers to Student's Book and Workbook questions provided at the back of each guide

Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Follows a topic-based structure, written to support cross-curricular learning

Think/Talk prompts on each page to encourage learners to think critically about the topics

Chapter 3 • Unit 5

Speaking to discuss and persuade

You will learn how to:

- make an effective contribution to a group discussion
- deliver a persuasive speech.

When taking part in a discussion, it is important to make informed comments. To be able to do this, you will need to research your topic carefully and expand on your points when asked about them.

Explore

Look at these statements for and against zoos:

For	Against
Zoos educate the public.	Animals suffer stress and boredom.
Zoos save endangered species.	There can be overpopulation of some species, due to pressures to breed 'cute' baby animals.
Zoos have breeding programmes.	Some zoos kill their surplus animals.
Visiting a zoo is a family activity.	Zoos teach children that imprisoning animals for entertainment is acceptable.
Seeing a live animal up close is a personal and memorable experience.	Animals suffer ill health and become unfit.

1 Note down two more points that could go in each column of the grid.

2 Read through the four pieces of evidence below, then match each piece of evidence to one of the arguments in the grid.

Evidence 1: A study of UK zoos found that 75% of elephants were overweight and only 16% could walk normally, the remainder having various degrees of lameness.


Evidence 2: Tigers and lions have around 18,000 times less space in zoos than they would have in the wild.

Evidence 3: Only 23 amur leopards are left in the wild because of poaching and habitat destruction, and they're only being kept alive because of breeding programmes in zoos.

Evidence 4: At the Saint Louis Zoo, about 400,000 children and adults participate in formal programmes, including classes and Camp KangaZoo each year.

Vocabulary

lameness: being able to walk properly, due to weakness or injury to the legs



3 Could you match evidence to all of the points? Why do you think a lack of evidence might be a problem during a discussion?

When you take part in a discussion, other members of the group will question you on your points. You need to be able to back up and explain your arguments clearly.

4 How could the following exchange between two students be improved?

Farah: Why do you think that zoos should be closed down, Akeem?

Akeem: I think they should be closed down because animals are locked up and they get bored.

5 Rewrite Akeem's response, adding evidence to support his point. Begin with the phrase, 'For example...'

6 Look at this example discussion topic:

In a group, discuss and answer the question: Should we ban zoos?

Decide what you might need to find out in advance so that you could take part successfully in the discussion. Make a list of points to research.

Develop

In a group discussion, someone needs to act as the **chairperson**. In order to be a good chairperson, you need to have questions ready to ask. You also need to be able to encourage all members of the group to take part.

The following are good leadership skills in a discussion:

- **Initiating:** 'Right, let's get started, do we agree with this statement?'
- **Asking questions:** 'How many zoos have been prosecuted for poor conditions?'
- **Involving others:** 'What do you think, Bill?'
- **Summarising:** 'Going back over what we have all said, it is clear that...'

Key terms

chairperson: the leader of a group discussion or meeting

86 Chapter 3 Advising and persuading

87 Listening and listening 87

Clear and appealing layout

A wide range of text types to activate learners' imaginations

Sample pages from Student's Book 7



Also available for the current curriculum framework (1111). For a full list of titles and pricing information see order form at collins.co.uk/intcatalogues

Student's Books

	ISBN	RRP
Stage 7	978-0-00-834083-4	£16.99
Stage 8	978-0-00-836407-6	£16.99
Stage 9	978-0-00-836408-3	£16.99

Workbooks

	ISBN	RRP
Stage 7	978-0-00-836417-5	£8.99
Stage 8	978-0-00-836418-2	£8.99
Stage 9	978-0-00-836419-9	£8.99

Teacher's Guides

	ISBN	RRP
Stage 7	978-0-00-836409-0	£100.00
Stage 8	978-0-00-836411-3	£100.00
Stage 9	978-0-00-836414-4	£100.00

eBooks

Student's Books

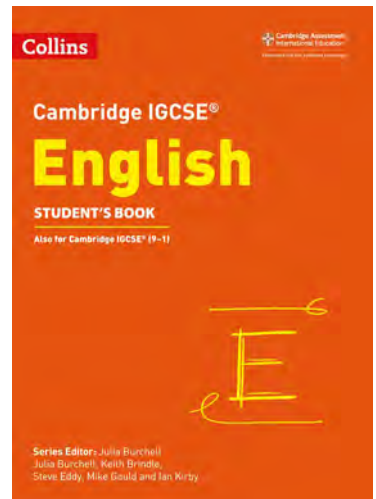
	ISBN	RRP
Stage 7	978-0-00-836688-9	£12.00
Stage 8	978-0-00-836689-6	£12.00
Stage 9	978-0-00-836690-2	£12.00

Teacher's Guides

	ISBN	RRP
Stage 7	978-0-00-836691-9	£70.00
Stage 8	978-0-00-836692-6	£70.00
Stage 9	978-0-00-836693-3	£70.00

Cambridge IGCSE™

English (0500/0990/0524)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Series Editor: Julia Burchell

Authors: Julia Burchell, Mike Gould, Keith Brindle, Steve Eddy, Ian Kirby, Claire Austin-Macrae, Nigel Carlisle, Joanna Fliski, Robin Wilson and Elizabeth Walter

Show students how to progress with a clear structure that moves from building key reading, writing and technical skills to applying these skills to specific question types and coursework tasks.

Student's Book

- Help students to measure their progress with *Check Your Progress* features whilst annotated responses show them how to improve
- Offer plenty of practice opportunities with end-of-chapter questions and two complete practice papers
- Build confidence in speaking and listening with clear guidance, activities and exemplification of the presentation and discussion tasks

Workbook

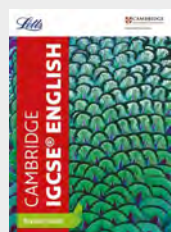
- Set homework easily and offer extra support with a clear correspondence between the Workbook and Student's Book
- Offer practice of the key skills, covering teaching points in more depth and with more scaffolding
- Build students' writing stamina and fluency for all the writing forms and purposes required by the syllabus with exam-question style tasks

Teacher's Guide

- Support students' progress with teaching sequences moving from building the key reading and writing skills to applying these skills to examinations and coursework tasks
- Save time on planning and preparation with a two-year scheme of work, differentiated lesson plans, worksheets and PowerPoints for every two- or four-page section of the Student's Book



Sample page from Student's Book



Cambridge IGCSE™

English Revision Guide

For more information see page 58.

This resource is **endorsed for revision** by Cambridge International to support the full syllabus for examination from 2020.

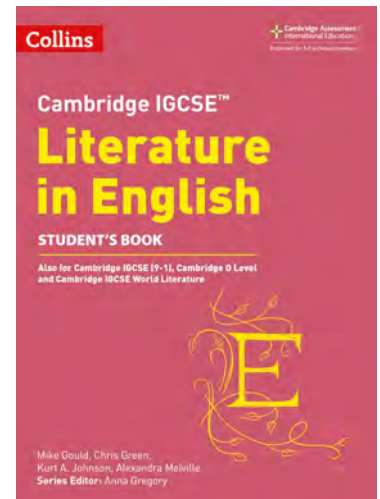
Revision

Cambridge IGCSE English	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-826200-6	£23.99	Student's Book	978-0-00-838313-8	£16.75
Workbook	978-0-00-826202-0	£8.99	Teacher's Guide	978-0-00-838314-5	£70.00
Teacher's Guide	978-0-00-826201-3	£100.00			
Revision Guide	978-0-00-821036-6	£9.99			

Cambridge IGCSE™

Literature in English

(0475/0992/0427/2010/0408)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Series Editor: Anna Gregory

Authors: Anna Gregory, Mike Gould, Alexandra Melville, Kurt A. Johnson and Chris Green

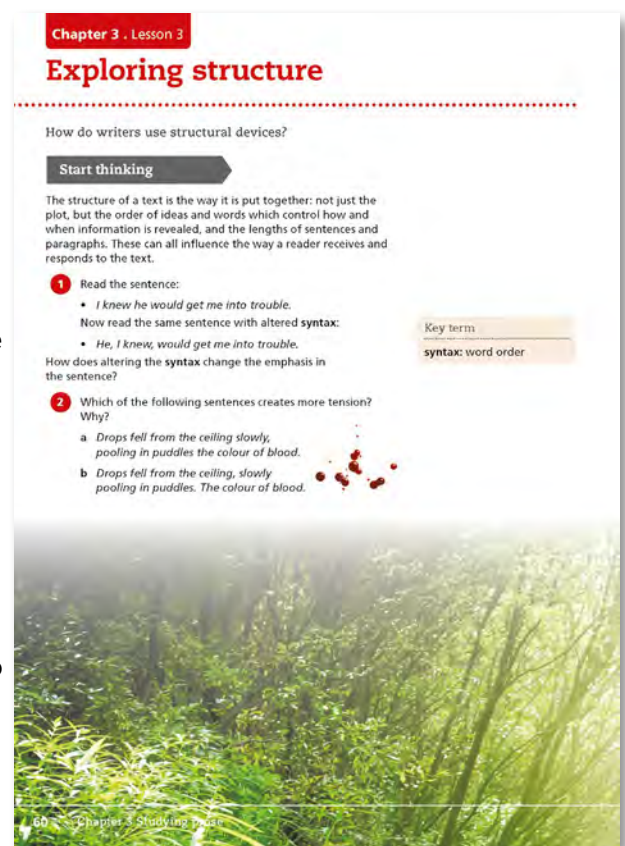
Introduce students to the fundamental skills and concepts of literary study and provide support in applying them to poetry, prose and drama. This resource also supports the Cambridge O Level and the Cambridge IGCSE™ World Literature syllabus.

Student's Book

- Help students progress by teaching the underlying skills and concepts before applying them in passage-based, discursive and unseen tasks
- Ensure students can measure their progress with *Check Your Progress* features, while annotated responses show them how to improve
- Support students with clear differentiation: introductory chapters build learners' confidence, the main chapters offer greater depth, while extension lessons help students reach their full potential
- Engage students with rich, varied, text extracts from a variety of periods and cultures

Teacher's Guide

- Follow the structure of the Student Book, moving from building the key skills in comprehension, close analysis and interpretation to applying these skills to specific exam and coursework tasks
- Save time on planning and preparation with a two-year scheme of work and differentiated lesson plans, worksheets and PowerPoints for every two- or four-page section of the Student's Book
- Adapt the resources to the needs of your classes with printable PDFs and editable Word and PowerPoint files

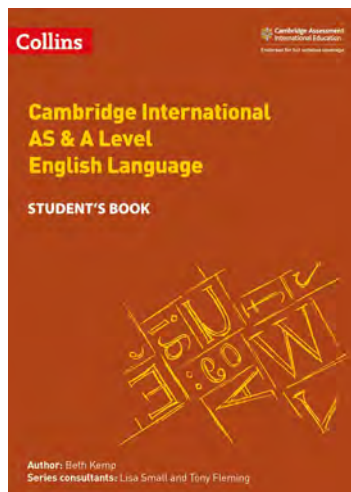


Sample page from Student's Book

Cambridge IGCSE Literature in English	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-826203-7	£22.99	Student's Book	978-0-00-838315-2	£16.00
Teacher's Guide	978-0-00-826204-4	£100.00	Teacher's Guide	978-0-00-838316-9	£70.00

Cambridge International

AS & A Level English Language (9093)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2021.

Series Editors: Lisa Small and Tony Fleming

Author: Beth Kemp

Build skills and knowledge in a clear sequence and help students to apply skills to a range of language tasks, with up-to-date coverage of the syllabus topics and a stimulating range of international texts.

Student's Book

- Refresh students' understanding of key concepts such as audience, purpose and form, and of elements of language including sentences and clauses
- Build writing and analysis skills by introducing students to different modes of analysis and the conventions of different writing forms and purposes
- Explore the relevant linguistic theories and help students to apply these ideas in their own arguments and analysis of texts, transcripts and data
- Offer step-by-step support for responding to a range of tasks with sample responses at different levels to help students understand how to improve
- Build confidence for the examination with complete exam-style practice papers
- Encourage an active approach to learning by asking students to discuss, analyse and apply the ideas they are learning about, and to experiment with different techniques in their own writing
- Provide engaging examples to analyse and stimulus for debates with a rich variety of texts from around the world
- Free editable scheme of work and answer key available online



Sample page from Student's Book

AS & A Level English Language	ISBN	RRP
Student's Book	978-0-00-828760-3	£29.99
Student's Book eBook	978-0-00-834101-5	£20.99

Cambridge International AS & A Level Literature in English (9695)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2021.

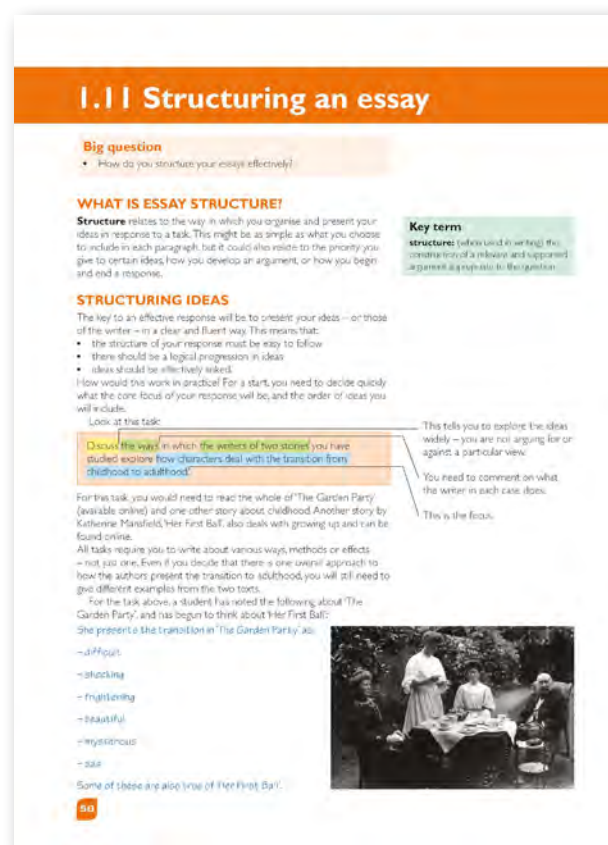
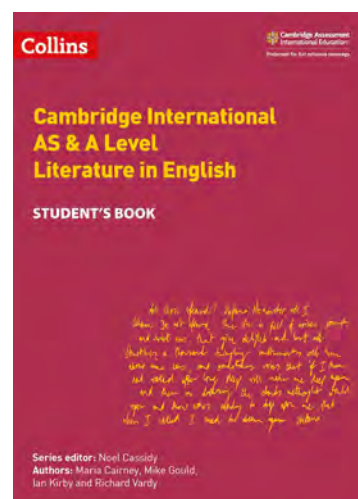
Series Editor: Noel Cassidy

Authors: Mike Gould, Maria Cairney, Ian Kirby and Richard Vardy

Build knowledge in a clear sequence and help students apply skills to a range of language tasks, with up-to-date coverage of the syllabus topics and a stimulating range of international texts.

Student's Book

- Develop effective writing throughout with dedicated activities and exemplar student answers to model different ways of responding to texts
- Help students progress with clear, step-by-step learning moving from exploration to supported analysis to independent writing, and building towards examination-style tasks at the end of each chapter
- Show students how to apply the fundamental skills to write about the three major forms of poetry, prose and drama, and to respond to unseen texts
- Revisit ideas at a higher level to challenge the most able students with *Thinking More Deeply* sections
- Allow students to explore different writers' choices and their effects with international texts from a variety of periods and cultures
- Clearly organised into practical sequences of learning that can be used as lessons or series of lessons, with a focus on activity and modelling
- Free teacher resources available online, including editable medium-term plans summarising the coverage of each unit and chapter



Sample page from Student's Book

AS & A Level Literature in English	ISBN	RRP
Student's Book	978-0-00-828761-0	£29.99
Student's Book eBook	978-0-00-834102-2	£20.99

new Cambridge Lower Secondary English as a Second Language (0876) Second Edition



We are working with Cambridge Assessment International Education towards endorsement of this series.

Authors: Nick Coates, Anna Cowper, Rebecca Adlard, Anna Osborn, Andy Pozzoni

Offer full coverage of the new Cambridge Lower Secondary English as a Second Language curriculum framework. Consisting of an engaging Student's Book, stimulating Workbook and supportive Teacher's Guide, the course offers progression within and across levels.

Student's Books

- Offer differentiated materials for students of varying abilities
- Develop students' communication skills with a focus on functional language
- Build critical thinking skills through a wide range of curriculum-based topics
- Download free audio files available through the Collins website

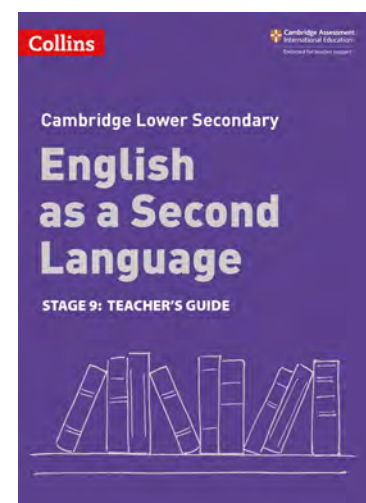
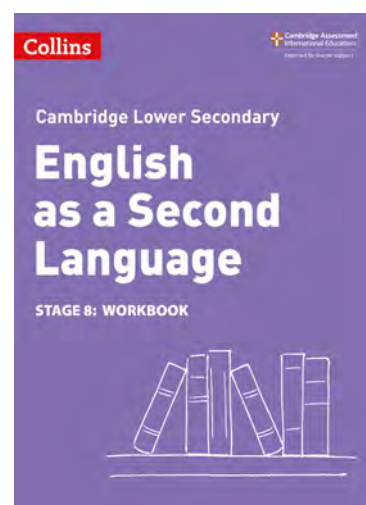
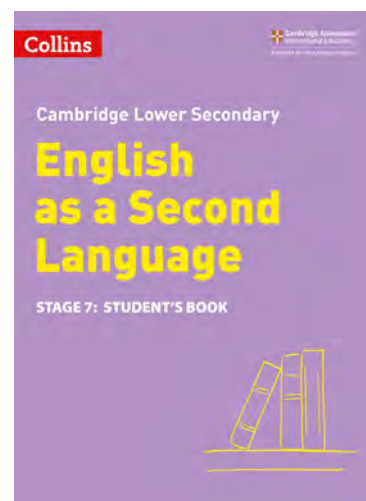
Workbooks

- Develop students' key skills and language throughout
- Use alongside the Student's Book, with matching structure, content and themes
- Provide students with further practice to consolidate and extend learning

Teacher's Guides

- Provide detailed notes and suggestions for each activity
- Offer differentiated learning outcomes highlighted within activities
- Help more able students with additional ideas for further activities, writing topics, and speaking practice
- Assist smooth transition from primary to secondary level with optional orientation lessons

Supports **Cambridge Global Perspectives™** with activities that develop and practise key skills.



Written in a way that effectively offers progression throughout the stages

Helpful tips to aid students in understanding specific aspects of each topic

Endangered animals

Listening: setting the scene

- You are going to listen to a talk about endangered animals.
 - What does the word *danger* mean? Give examples of some dangers.
 - What do you think *endangered* means? Which animals can you name that are endangered?
- Read these animal fact files. Which information is missing?

 <p>Name: tiger Key facts: largest of the cat family, weighs ¹ _____; 3.5m long Lives: ² _____ Numbers: 3900 (2015) Threats: losing land (now have ³ _____ of land they used to have); hunting for their skins Good news: a recent ⁴ _____ increase in numbers</p>	 <p>Name: leatherback turtle Key facts: has lived on Earth for more than ⁵ _____ years Lives: oceans Numbers: unknown but falling quickly Threats: ⁶ _____ (caught in nets); pollution (particularly ⁷ _____) Good news: none</p>	 <p>Name: mountain gorilla Key facts: intelligent – can learn sign language Lives: Central Numbers: ⁸ _____ Threats: war, losing forest; ⁹ _____, disease Good news: 14% increase in numbers in the last ¹⁰ _____</p>
---	---	---

Listening: a talk

- Listen to the scientist talking. Which animal does he discuss first, second and last?
- Listen again. Complete the fact files with the missing information.

Vocabulary: words in context

Match the words with their meanings.

- disease hunt increase intelligent land net ocean skin
- the outside layer of a person's or animal's body
 - a rise in the number or amount of something
 - to catch or kill an animal
 - a bag made of string or rope used to catch fish
 - a large area of salt water
 - an area of ground (used for farming or living on)
 - a serious illness
 - good at thinking, understanding and learning

100 listen for specific information

Speaking: what can we do about it?

- Read the conversation. What are they talking about?

Person 1: The number of endangered animals is frightening. We have to do something about it!

Person 2: You're right, but what should we do?

Person 1: Well, we could stop throwing plastic bags away.

Person 2: That's a good idea. But we must do something to help the gorillas as well.

Person 1: Yes, but what can we do?

Language tip:
Modal verbs add meaning to main verbs. We don't use them to talk about facts. We use them to express ideas and opinions.
He is a hunter. [fact]
He shouldn't be a hunter. [opinion]

- Look at the underlined words. They are all called modal verbs.
 - Which ones do we use to talk about something that is important to do?
 - Which one do we use to suggest something?
 - Which one do we use to talk about possibility?

- What do you think we can do to help endangered animals?
 - Discuss in a group.
 - Tell the class your ideas.

Use of English: modal verbs

Work in pairs. Follow the instructions to play *modal noughts and crosses*.

- Write your name on five small pieces of paper.
- Take turns to choose a square in the table below. Make a sentence using the modal in the square.
 - If you both agree that your sentence is correct, put your paper on the square.
 - If you don't agree that a sentence is correct, ask your teacher to decide.
- The winner is the first one to get three papers in a straight line (top to bottom, side to side, or corner to corner).

shouldn't	have to	must	can	might	couldn't
need to	mustn't	might not	may not	didn't need to	shall
could	should	ought to	will have to	wouldn't	may

modal verbs 101

Exercises for both individual and whole-class practice

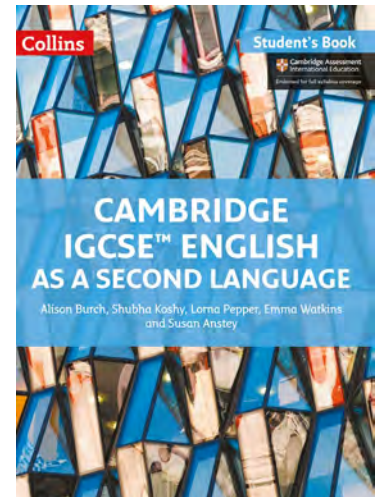
Sample pages from Student's Book 7



Also available for the current curriculum framework (1110). For a full list of titles and pricing information see order form at collins.co.uk/intcatalogues

Student's Books	ISBN	RRP	eBooks	ISBN	RRP
Stage 7	978-0-00-834084-1	£16.99	Student's Books	Stage 7	978-0-00-836688-9 £12.00
Stage 8	978-0-00-836680-3	£16.99	Stage 8	978-0-00-836689-6	£12.00
Stage 9	978-0-00-836681-0	£16.99	Stage 9	978-0-00-836690-2	£12.00
Workbooks	ISBN	RRP	Teacher's Guides	ISBN	RRP
Stage 7	978-0-00-836685-8	£8.99	Stage 7	978-0-00-836691-9	£70.00
Stage 8	978-0-00-836686-5	£8.99	Stage 8	978-0-00-836692-6	£70.00
Stage 9	978-0-00-836687-2	£8.99	Stage 9	978-0-00-836693-3	£70.00
Teacher's Guides	ISBN	RRP			
Stage 7	978-0-00-836682-7	£100.00			
Stage 8	978-0-00-836683-4	£100.00			
Stage 9	978-0-00-836684-1	£100.00			

Cambridge IGCSE™ English as a Second Language (0510/0511/0991)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2019.

Collins Connect has not been through the Cambridge International endorsement process.

Authors: Lorna Pepper, Susan Anstey, Shubha Koshy, Mike Gould, Alison Burch, Emma Watkins

Provide exercises for skills-building, exam practice and engaging content to help students achieve their full potential with the Cambridge IGCSE English as a Second Language course.

Student's Book

- Provide plenty of practice opportunities with skills-building activities organised by topic and assessment practice and by type of question or task
- Showcase and discuss a rich variety of authentic, engaging listening and reading texts for a global, multicultural focus
- Develop students' listening skills with a CD including audio files and scripts for speaking and listening activities

Workbook

- Help students to consolidate knowledge and set homework quickly and easily with a write-in, full-colour Workbook

Teacher's Guide

- Save time with comprehensive lesson plans, photocopiable worksheets, activities and ideas for differentiation and extension
- Provide lesson starters and discussion points with links to online video clips relevant to topics in the Student's Book

2.4 Underwater exploration

LISTENING SKILLS IN FOCUS (L1)
In this section you will learn to:

- ✓ understand and pick out facts when listening to short spoken texts
- ✓ understand and pick out facts when listening to a longer and more difficult text
- ✓ listen carefully and understand complicated instructions.

GETTING STARTED

① Did you know that a lot of the Earth's deep ocean remains unexplored? Look at the photos on this page and page 43.

a) Think of five questions you would like to ask about underwater exploration.

b) In groups of four:

- share and make a list of all your questions
- sort the questions into themes or ideas.

EXPLORING THE SKILLS
A fact is something that can be proved to be true, for example, *The Mariana Trench is the deepest part of the ocean.* It is useful to be able to select facts when you are listening to information.

② Look at the two advertisements below, and then listen to each radio advertisement. What is each one advertising?

!FRIDAY SALE!

Joe Diver Equipment

100% are the underwater specialists.

DEEP BLUE DIVER TRAINING COURSES

Only \$25 per hour for those aged 16 to 18.

③ You are now going to hear some phrases from the first advertisement again. Note down the letters (a), (b), (c), etc.) as you hear the facts.

a) We are the underwater specialists.
b) Well known for their superb comfort.
c) This special offer is our best price ever!
d) That's an amazing \$13 saving.
e) And don't forget, there's free shipping with orders over \$100.

Sample page from Student's Book



Cambridge IGCSE™ English as a Second Language Revision Guide

For more information see page 58.

This title is **endorsed for revision** by Cambridge International to support the syllabus for examination from 2019.

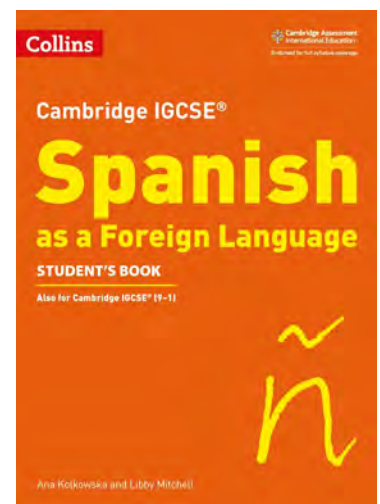
Revision

Collins Connect

Available on Collins Connect, an online learning platform containing a wealth of content and additional activities.

Cambridge IGCSE English as a Second Language	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-819726-1	£24.99	Student's Book	978-0-00-838317-6	£17.50
Workbook	978-0-00-819727-8	£8.99	Teacher's Guide	978-0-00-838318-3	£70.00
Teacher's Guide	978-0-00-819729-2	£100.00			
Collins Connect 1 year licence	978-0-00-819730-8	£250.00 + VAT			
Revision Guide	978-0-00-821038-0	£8.99			

Cambridge IGCSE™ Spanish (0530/7160)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2021.

Authors: Katie Foufouti, Ana Kolkowska, Libby Mitchell and Charonne Prosser

Develop confidence through a clear structure and engaging content with topic-based units that give the opportunity for language learning and skills development in real-world contexts.

Student's Book

- Cover all four skills (reading, writing, listening and speaking) in a skills-based communicative approach
- Offer opportunities for practice, consolidation and revision throughout the course, with exam-style questions in listening and reading included to help students develop their skills
- Encourage students to reflect on their learning and direct their own progress at the end of each unit
- Provide thought-provoking and enjoyable insights into the culture and society of Spanish-speaking countries with the *El mundo hispanohablante* sections in each unit
- Develop oral fluency with downloadable audio files which include listening comprehension exercises

Workbook

- Provide students with practice activities to reinforce, consolidate and extend language learning and skills development
- Each unit contains additional writing and speaking practice in the form of exam-style activities

Teacher's Guide

- Prepare, plan and manage lessons effectively with clear and concise notes
- Provide support and activities throughout with a useful framework for working with a mixed-ability class
- Use the introductory Student's Book unit as a diagnostic tool at the start of the course to assess knowledge levels

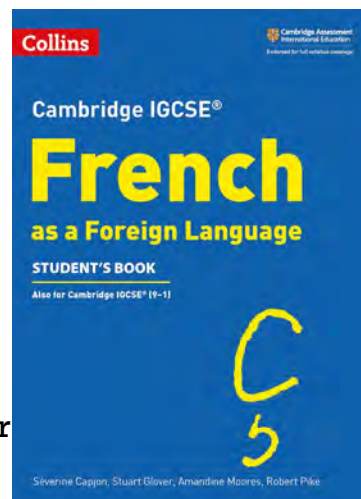


Sample page from Student's Book

Cambridge IGCSE Spanish	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-830037-1	£24.99	Student's Book	978-0-00-834110-7	£17.00
Workbook	978-0-00-830039-5	£9.99	Teacher's Guide	978-0-00-834112-1	£70.00
Teacher's Guide	978-0-00-830038-8	£100.00	Teacher's Guide (Spanish Language Ed.)	978-0-00-834111-4	£70.00

Cambridge IGCSE™

French (0520/7156)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2021.

Authors: Séverine Capjon, Stuart Glover, Amandine Moores, Robert Pike and Oliver Gray

Provide comprehensive coverage of the Cambridge IGCSE French syllabus whilst building confidence in language skills. With a clear structure and engaging content, the topic-based units allow for language and skills to be taught in real-world contexts.

Student's Book

- Cover all four skills (reading, writing, listening and speaking) in a skills-based communicative approach
- Develop students' abilities with plenty of opportunities for practice, consolidation and revision is provided throughout the course, with exam-style questions included
- Encourage students to reflect on their progress with Check-up and Review sections
- Offer stimulating, thought-provoking and enjoyable insights into the culture and society of Francophone countries with the *Français en action* section
- Develop oral fluency with downloadable audio files which include listening comprehension exercises

Workbook

- Provide additional material for skills development and language practice following the structure of the Student's Book
- Consolidate and reinforce language learning, including additional writing and speaking practice in exam-style activities

Teacher's Guide

- Prepare, plan and manage lessons effectively with clear and concise notes for all units
- Gain inspiration from a useful guide on how to work with mixed-ability classes, with differentiated support and activity suggestions throughout
- Use the Introductory unit as a diagnostic tool at the start of the course to assess knowledge levels



Sample page from Student's Book

Cambridge IGCSE French

Student's Book
Workbook
Teacher's Guide

ISBN

978-0-00-830034-0
978-0-00-830036-4
978-0-00-830035-7

RRP

£24.99
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eBooks

Student's Book
Teacher's Guide
Teacher's Guide (French Language Ed.)

ISBN

978-0-00-834103-9
978-0-00-834105-3
978-0-00-834109-1

RRP

£17.00
£70.00
£70.00



VOCAB EXPRESS for Cambridge IGCSE™

These resources are **endorsed** by Cambridge Assessment International Education to provide learner support for Cambridge IGCSE French, Spanish, German, Italian and Arabic. We are working with Cambridge Assessment International Education towards endorsement to provide learner support for Cambridge IGCSE Malay.

Authors: Katie Foufouti, Ana Kolkowska, Libby Mitchell and Charonne Prosser

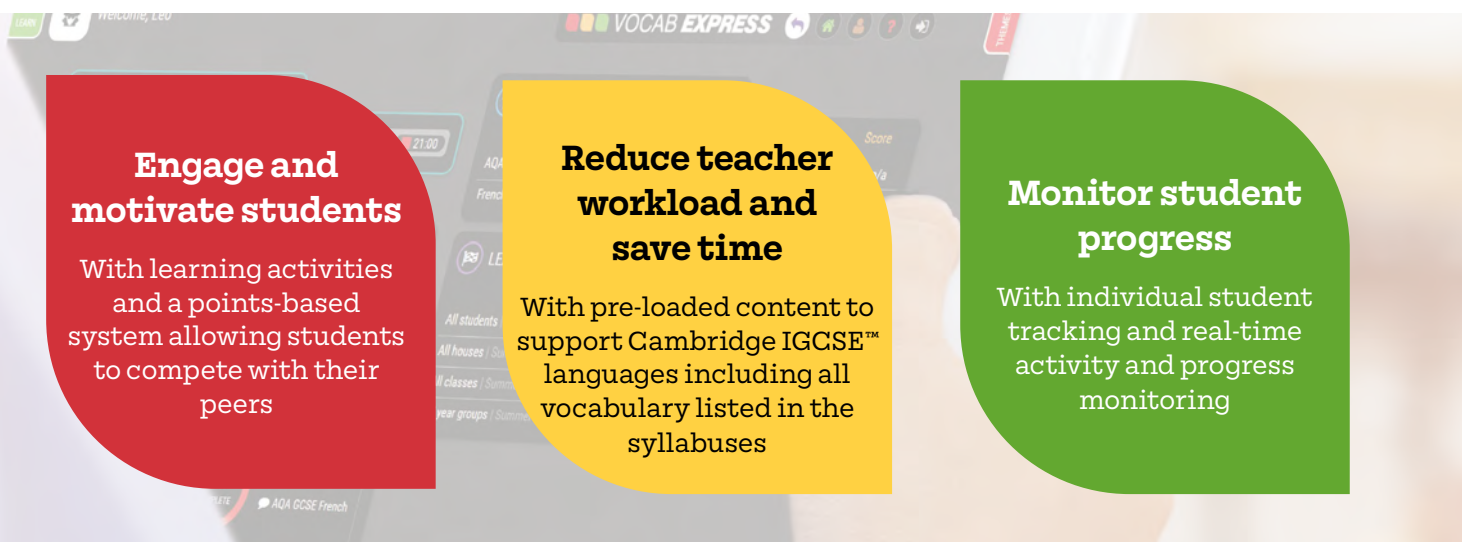
Vocab Express encourages students to learn foreign language vocabulary independently. Integrating text, images and audio, the online platform is an engaging environment in which students can build their vocabulary from anywhere, at any time.

Student's Book

The unique platform makes homework setting and progress monitoring simple, with pre-loaded and categorised exam board content and easy-to-use tracking tools.

New courses for Cambridge IGCSE are now available and are based on the vocabulary requirements for the following syllabuses:

- Cambridge IGCSE French
- Cambridge IGCSE Spanish
- Cambridge IGCSE German
- Cambridge IGCSE Italian
- Cambridge IGCSE Arabic
- Cambridge IGCSE Malay



Engage and motivate students

With learning activities and a points-based system allowing students to compete with their peers

Reduce teacher workload and save time

With pre-loaded content to support Cambridge IGCSE™ languages including all vocabulary listed in the syllabuses

Monitor student progress

With individual student tracking and real-time activity and progress monitoring

Become a regional Vocab Express Ambassador School and ...

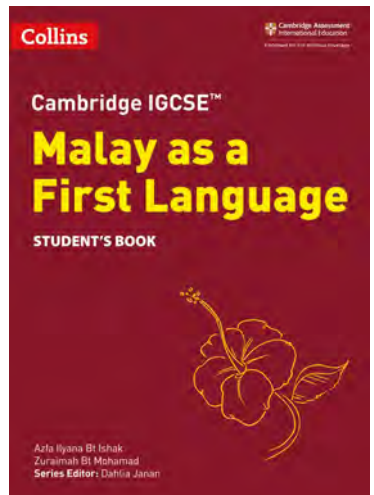
- Trial new features before they are released
- Receive school promotion by Collins
- Lead regional Vocab Express competitions



Other languages are also available for other exam boards and levels, see collins.co.uk/vocabexpress for more information

There is an annual configuration charge to get set up and running on the platform. Contact collins.international@harpercollins.co.uk to find out more.

Cambridge IGCSE™ Malay as a First Language (0696)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2021.

Series Editor: Dahlia Janan

Authors: Azfa Ilyana Bt Ishak and Zuraimah Bt Mohamad

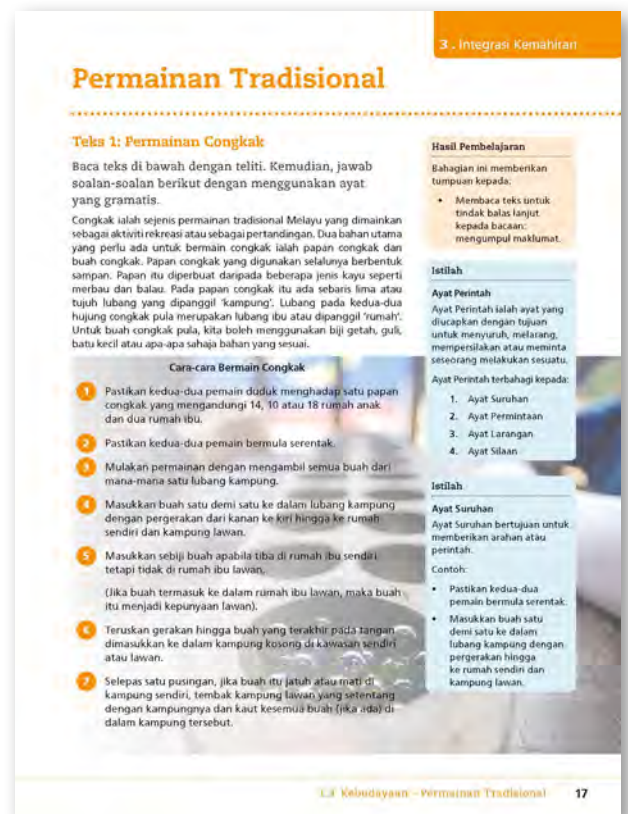
Help first language Malay students develop and apply their language skills. The series is developed by experienced Malay teachers and specialists and is the only resource available offering full syllabus coverage.

Student's Book

- Developed and reviewed by Malay First Language specialists and experienced teachers
- Provide coverage of full syllabus objectives
- Integrate exam practice throughout with exam-style questions, assessment preparation, learning objectives and learning summaries to reinforce students' understanding
- Encourage pupils' learning with easy-to-use structure with accessible and consistent signposting within each unit and a glossary of key terminology included in the back of the book

Teacher's Guide

- Provide comprehensive support to plan and deliver lessons in Malay as a First Language
- Deliver differentiated lessons with step-by-step lesson plans, suggestions for support and extension activities as well as answer keys and example answers



Sample page from Student's Book

Cambridge IGCSE Malay as a First Language	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-831105-6	£24.99	Student's Book	978-0-00-835263-9	£17.50
Teacher's Guide	978-0-00-831106-3	£100.00	Teacher's Guide	978-0-00-835264-6	£70.00

Cambridge IGCSE™ Malay as a Foreign Language (0546)

This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2022.

Offer comprehensive coverage of the revised and updated Cambridge IGCSE Malay as a Foreign Language syllabus and ensure students are fully prepared to use Malay both in and out of the classroom.

Student's Book

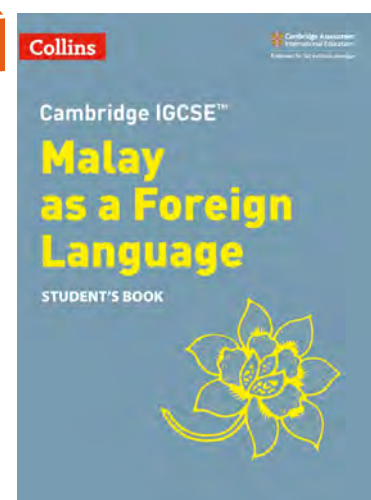
- Teach language in context and engage students' interest with topic-based units
- Provide clear learning objectives for each unit, with topics, grammar and vocabulary all mapped to the syllabus
- Offer essential insight into the culture and civilisation of Malaysia with cultural insight boxes
- Cover all four skills (reading, writing, listening and speaking) with a variety of appropriately-graded exercises offering progression within and across units
- Audio files are included as a free download

Workbook

- Equip students with additional material for practice and reinforcement following the topic-based units of the Student's Book
- Allow students to revisit the core grammar and vocabulary points of each unit with carefully-graded exercises
- Updated to reflect the new syllabus requirements, including the addition of new listening activities

Teacher's Guide

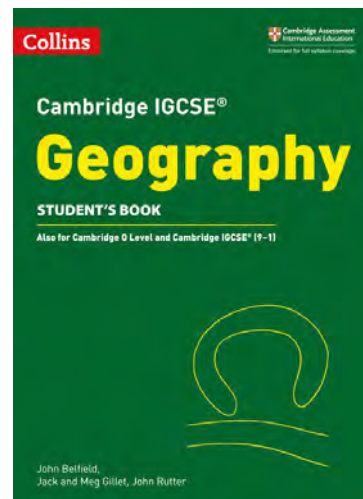
- Provide step-by-step guidance on how to teach the course, with clear lesson plans and syllabus information



Sample page from Student's Book

Cambridge IGCSE Malay as a Foreign Language	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00836446-5	£25.99	Student's Book	978-0-00-844740-3	£18.00
Workbook	978-0-00836447-2	£8.99	Teacher's Guide	978-0-00-844741-0	£ 49.00
Teacher's Guide	978-0-00836448-9	£70.00			

Cambridge IGCSE™ Geography (0460/0976/2217)



The Student's Book is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

The Teacher's Guide has not been through the Cambridge International endorsement process.

Authors: John Belfield, Jack Gillett, Meg Gillett, John Rutter, Alison Rae and Alan Parkinson

Encourage students to make links between global case studies and their local contexts, as well as explore the core themes such as Population and Settlement, The Natural Environment and Economic Development and the Use of Resources written by highly experienced Geography teachers.

Student's Book

- Develop students' geographical and fieldwork skills
- Provide examination support with opportunities for practice and self-assessment, exam-style questions, answers at different levels and accompanying comments
- Produced in partnership with the UK Geographical Association

Teacher's Guide

- Deliver consistent lessons with lesson plans for every topic in the Student's Book
- Support the process of studying with worksheets for every topic
- Suggested two-year scheme of work, exam practice and mark scheme guidance
- Online resources contain artwork, mapping and photographs from the Student's Book for Whiteboard display

Why did the population explosion happen?

The population explosion took place in two stages. The first was in the earliest industrialised countries like the UK. The second was much later, in poorer, mainly agricultural countries (mapigraphs A). This later stage is continuing in some parts of the world.

There were four main reasons for the population explosion:

- **Economic** Children can be an important source of income. In the poorest communities, every contribution, however small, is vital to the family budget. A child's income can mean the difference between starvation and survival for a family (photo B).
- **Care of the elderly** Older children can support the family by looking after elderly parents, or parents whose working lives are cut short by illness and accidents. The children may be the only support in countries that don't provide pensions or care facilities for the sick and elderly.
- **Infant mortality** Parents want to make sure that at least some of their children will survive and become adults. In poor societies, where medical facilities are limited, there is a high infant mortality rate. Having a large family provides security against the problems of old age.
- **Life expectancy** People are now living longer because of improved medical knowledge and treatment. Better farming methods

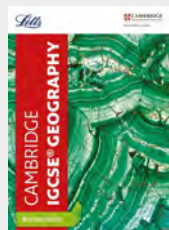
A. The population explosion happened in different places at different times.

B. Children at work

C. Modern machinery helped to increase global cereal production by over 250% in the late 20th century.

4 Population settlement

Sample page from Student's Book



Cambridge IGCSE™ Geography Revision Guide

For more information see page 58.

This title is **endorsed for revision** by Cambridge International to support the syllabus for examination from 2020.

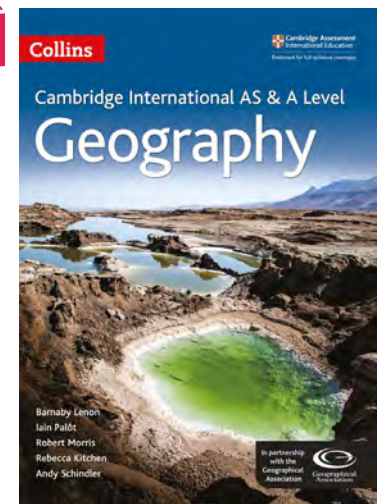
Revision

Cambridge IGCSE Geography	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-826015-6	£23.99	Student's Book	978-0-00-838335-0	£16.75
Teacher's Guide	978-0-00-826016-3	£100.00	Teacher's Guide	978-0-00-838336-7	£70.00
Revision Guide	978-0-00-821035-9	£9.99			

Cambridge International

AS & A Level Geography

(9696)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2018.

Authors: Barnaby Lenon, Iain Palôt, Robert Morris, Rebecca Kitchen and Andy Schindler

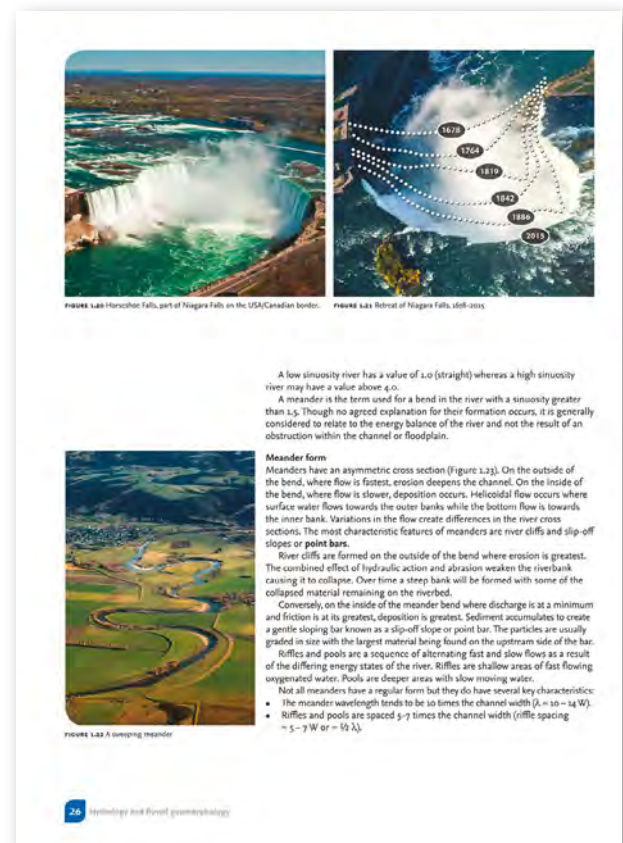
Support students in obtaining the knowledge, understanding and skills to help them succeed in their geographical studies. This resource covers all the core syllabus topics as well as the physical and human geography options.

Student's Book

- Help students develop an understanding of complex topics and the inter-relationships between processes
- Inspire learning with a wealth of maps, diagrams and infographics
- Engage students with up-to-date case studies from around the world
- Encourage exploration and interpretation with engaging infographics showing geographical patterns and data illustrated through maps and graphics

Teachers' Resources DVD

- Benefit from innovative and refreshing ideas, and try out new approaches to strengthen and deepen students' understanding of our complex world
- Reach every student and provide support in areas where some concepts are more challenging



Sample page from Student's Book

Cambridge International AS & A Level Geography

Student's Book

Teacher's Resource DVD

eBook

Student's Book

ISBN

978-0-00-812422-9

978-0-00-826016-3

ISBN

978-0-00-841872-4

RRP

£35.00

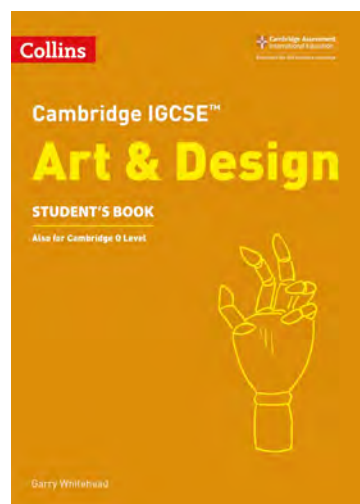
£200.00 + VAT

RRP

£24.50

Cambridge IGCSE™

Art & Design (0400/0989/6090)



This title is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Authors: Garry Whitehead

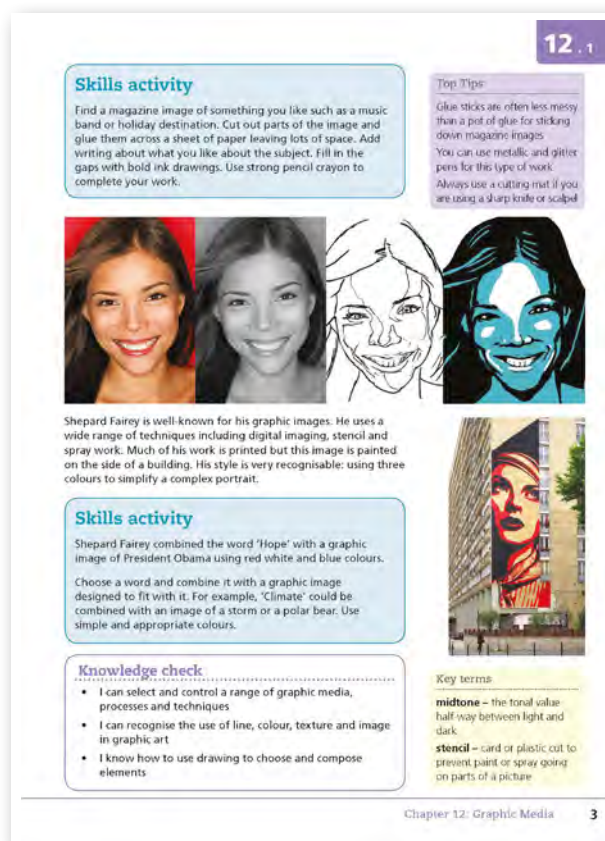
Spark creativity with detailed information on the key disciplines of Art and Design and build confidence in practical skills and creative expression using the only endorsed resource with full coverage of the Cambridge syllabus.

Student's Book

- Offer information on all the key disciplines and on key stages of the creative process, from development of a project from the beginning to the outcome
- Help students improve their work, highlighting useful skills and areas to consider or observe
- Provide opportunities for self-reflection to allow students to consider which objectives they have mastered and how they can take their learning further
- Show a wealth of case studies taken from different students' coursework around the globe so that students can learn from real-life examples

Teacher's Guide

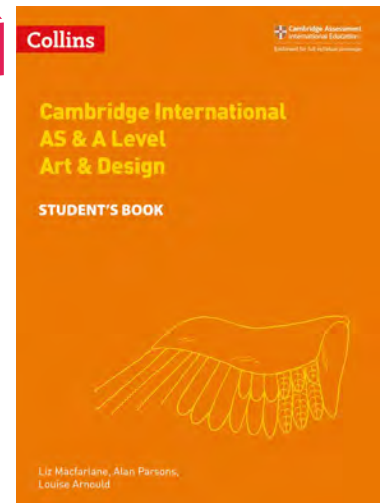
- Ensure an inclusive approach that both embeds best practice for new teachers and encourages experienced teachers to develop further
- Guidance on setting up and managing an art and design workspace and resources, the Elements of Art and the Creative Process as well as suggestions for activities and research included
- Make the most of all resources with comprehensive lesson plans matched to the Student's Book and suggested further activities to provide flexibility in teaching the course
- Deliver engaging lessons with activities and suggested projects of different lengths, for immediate assessment or to span lessons or topics
- Assess with ease using real student projects



Sample page from Student's Book

Cambridge IGCSE Art and Design	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-825096-6	£25.99	Student's Book	978-0-00-838436-4	£18.00
Teacher's Guide	978-0-00-825097-3	£100.00	Teacher's Guide	978-0-00-838437-1	£70.00

Cambridge International AS & A Level Art & Design (9479)



This title is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2019.

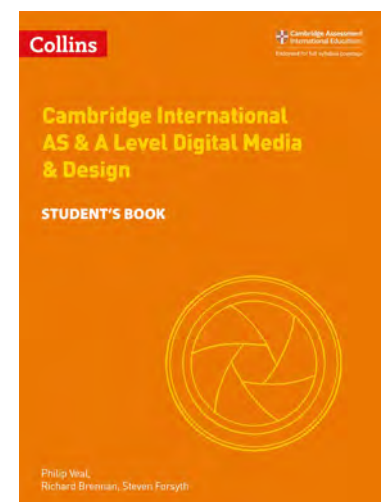
Authors: Alan Parsons, Elizabeth Macfarlane and Louise Arnould

Equip students to be creative and reflective artists with the only resource endorsed to support the Cambridge International AS & A level Art and Design syllabus.

Student's Book

- Guide students through the key concepts, encourage critical practice, and build confidence in practical skills and independent expression
- Offer insight into the artistic process of observation and intention, context and concepts, development and refinement and audience and setting in all disciplines
- Improve students' practical skills with a wide range of techniques and activities throughout

Cambridge International AS & A Level Digital Media & Design (9481)



This title is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2019.

Authors: Philip Veal, Richard Brennan, Steven Forsyth, Mike Acosta, Lesley Ann Davis, Natalie Procter and Mike Wyeld

Introduce students to digital media and design with the history of digital media, changes in the digital landscape and the use of industry tools and technologies. This is the only endorsed resource to support the new Cambridge International AS & A Level Digital Media & Design syllabus.

Student's Book

- Build students' practical and technical skills with focused activities throughout
- Consolidate understanding with comprehension activities that encourage discussion and reflection

AS & A Level Art & Design

Student's Book

Student's Book eBook

ISBN

978-0-00-825099-7

978-0-00-838438-8

RRP

£35.00

£24.50

AS & A Level Digital Media & Design

Student's Book

ISBN

978-0-00-825100-0

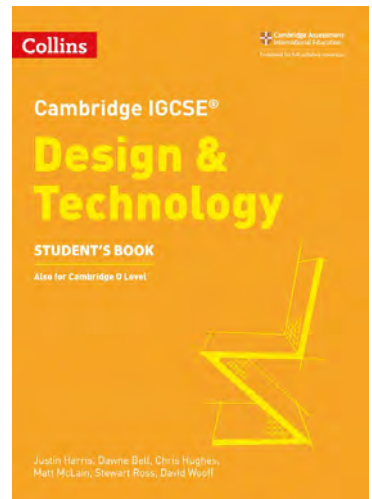
RRP

£35.00

Cambridge IGCSE™

Design & Technology

(0445/0979/6043)



This title is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

The Teacher's Guide and Collins Connect have not been through the Cambridge International endorsement process.

Authors: Stewart Ross, Dawne Bell, Justin Harris, Chris Hughes, Matt McLain and David Wooff

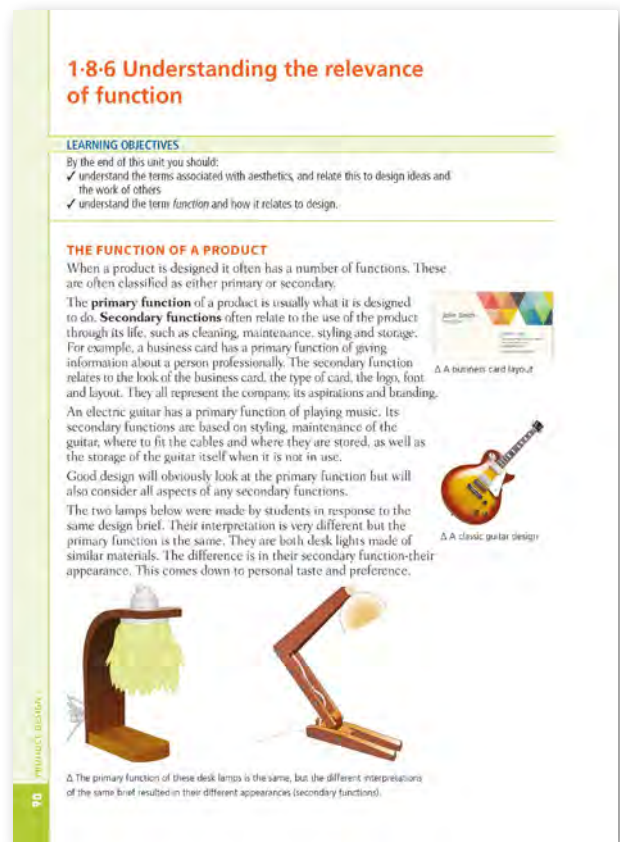
Combine together the theory and practical sections of the syllabus to effectively build students' key skills and knowledge, while providing support for teachers.

Student's Book

- Develop the skills students need to make the transition from theory to practical application
- Help students prepare for both the written and practical parts of the exam with guidance on the final project and exam-style questions
- Choose from the three optional papers (Resistant Materials, Graphic Products, and Systems and Control) covered in full, in addition to the core Product Design section

Teacher's Guide

- Deliver a comprehensive course with lesson plans and activities which are suitable for a range of international classroom environments
- Set up and run practical project work in the classroom with guidance throughout
- Fully support the approach of the Student's Book, using scenarios and skills-building to link together the theory and practical parts of the syllabus



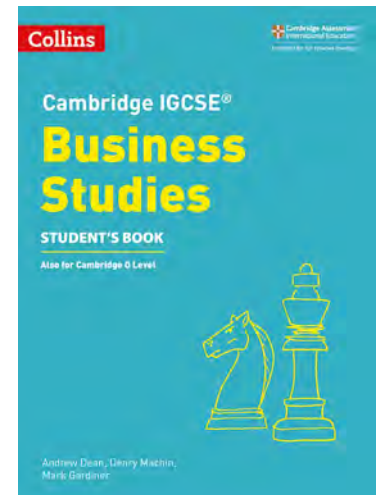
Sample page from Student's Book

Collins Connect

- The full Student's Book online for front-of-class teaching or for students to refer to at home
- Interactive quizzes to provide further practice and reinforcement for students

Cambridge IGCSE Design and Technology	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-829327-7	£24.99	Student's Book	978-0-00-838434-0	£17.50
Teacher's Guide	978-0-00-829328-4	£100.00	Teacher's Guide	978-0-00-838435-7	£70.00
Collins Connect 1 year licence	978-0-00-829742-8	£300.00 + VAT			

Cambridge IGCSE™ Business Studies (0450/0986/7115)



This title is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Authors: Andrew Dean, Denry Machin, Mark Gardiner and James Beere

Deliver a course that reflects the modern business world with up-to-date examples and data. Build students' skills in application, analysis and evaluation with targeted skills activities and skills builders.

Student's Book

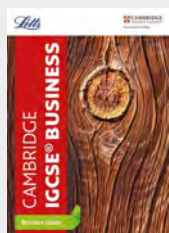
- Access the syllabus content with a fresh, visual design and language tailored to English as a Second Language learners
- Develop exam skills with exam-style questions and case studies
- Encourage students to check their understanding with Knowledge Check questions for every topic
- Assess students' grasp of content through a progression checklist at the end of every chapter
- Improve and consolidate understanding of key terms and concepts

Teacher's Guide

- Teach Business Studies in context with real-life international case studies from a range of regions, allowing students to hone in on their local perspectives
- Adapt editable lesson plans and worksheets to suit class needs
- Provide additional support through worked examples of difficult financial concepts
- Reduce planning time with our comprehensive Scheme of Work that is completely matched to the Student's Book and Teacher's Guide



Sample page from Student's Book



Cambridge IGCSE™ Business Revision Guide

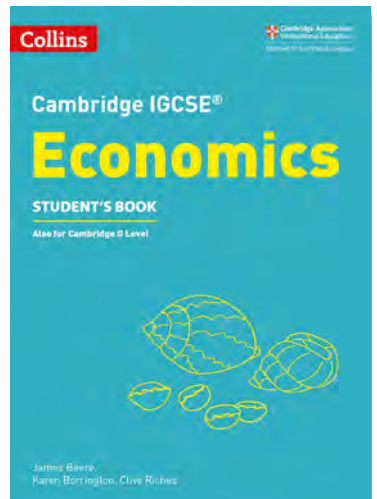
For more information see page 58.

This title is **endorsed for revision** by Cambridge International to support the syllabus for examination from 2020.

Revision

Cambridge IGCSE Business Studies	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-00-0825805-4	£23.99	Student's Book	978-0-00-838343-5	£16.75
Teacher's Guide	978-00-0825806-1	£100.00	Teacher's Guide	978-0-00-838344-2	£70.00
Revision Guide	978-00-0826014-9	£9.99			

Cambridge IGCSE™ Economics (0455/2281)



This title is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Authors: James Beere, Karen Borrington, Clive Riches, Neil Buchanan, Clive Riches and Ian Rowbury

Support students in their learning and understanding of economic terminology, concepts and theories, and guide them in applying their knowledge to current economic issues.

Student's Book

- Provoke student discussion and understanding with global and region-specific case studies
- Demonstrate to learners how a problem or question can be addressed
- Reinforce students' understanding with practice and exam-style questions
- Key terms and key concepts highlighted on the page and included in a useful glossary at the end of the book

Teacher's Guide

- Deliver lessons with clear and consistent lesson plans with support given for non-subject specialists
- Ensure students' understanding with suggested review questions for remedial or revision work
- Provide notes on case studies and ideas for extension work, topics and research
- Encourage communication and presentation skills with additional collaborative activities
- Additional photocopiable activity sheets at the back of the book for extra practice included



Sample page from Student's Book



Cambridge IGCSE™ Economics Revision Guide

For more information see page 58.

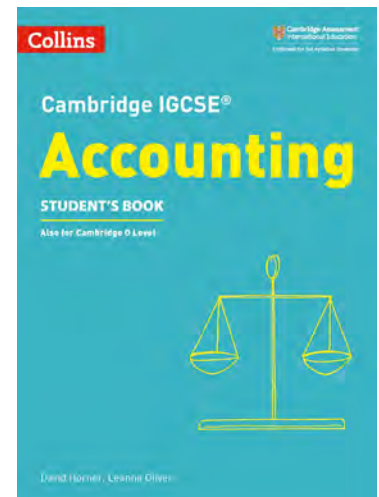
This title is **endorsed for revision** by Cambridge International to support the syllabus for examination from 2020.

Revision

Cambridge IGCSE Economics	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-825409-4	£23.99	Student's Book	978-0-00-838345-9	£16.75
Teacher's Guide	978-0-00-825410-0	£100.00	Teacher's Guide	978-0-00-838346-6	£70.00
Revision Guide	978-0-00-826013-2	£9.99			

Cambridge IGCSE™

Accounting (0452/0985/7707)



This title is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2020.

Authors: David Horner and Leanna Oliver

Help students to develop and apply their knowledge to a variety of accounting tasks such as calculations, completing a statement of accounts, preparing journal entries, as well as how to analyse financial data.

Student's Book

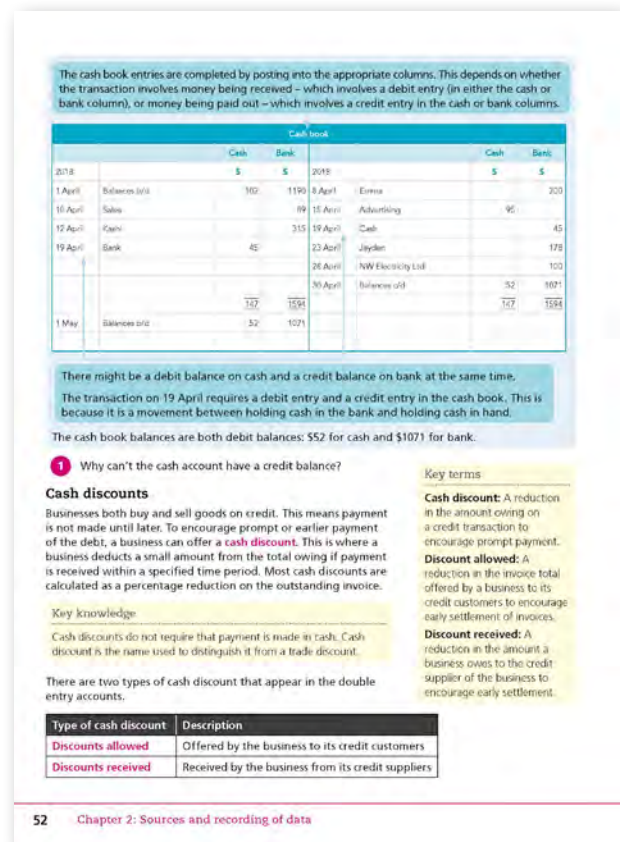
- Easy-to-use book structure with clear and consistent signposting within each unit
- Demonstrate how a problem or question can be addressed with worked examples
- Reinforce learners' understanding with practice and exam-style questions
- Key terms and key concepts are highlighted on the page and included in a useful glossary at the end of the book

Workbook

- Provide additional materials for the practice of preparation of accounting documents
- Give support to those who are struggling as well as those who need to be stretched further
- Offer further practice and revision opportunities with unit and end-of-chapter reviews

Teacher's Guide

- Assess understanding with Knowledge Check questions and end-of-chapter exercises
- Support given for non-subject specialists, with any required introductory background or prior knowledge explained at the beginning of each unit for those who need it
- Ensure students are fully prepared with guidance given on how to use the questions and how and when to assess students' responses
- Photocopiable resources included at the end of the book, including accounting proformas for answers to exercises and project work



Sample page from Student's Book

Cambridge IGCSE Accounting

Student's Book
Workbook
Teacher's Guide

ISBN

978-0-00-825411-7
978-0-00-825412-4
978-0-00-825413-1

RRP

£23.99
£8.99
£100.00

eBooks

Student's Book
Teacher's Guide

ISBN

978-0-00-838432-6
978-0-00-838433-3

RRP

£16.75
£70.00

new Cambridge IGCSE™ ICT

(0417/0983)

Third Edition

We are working with Cambridge Assessment International Education towards endorsement of this title.

Authors: Paul Clowrey and Colin Stobart

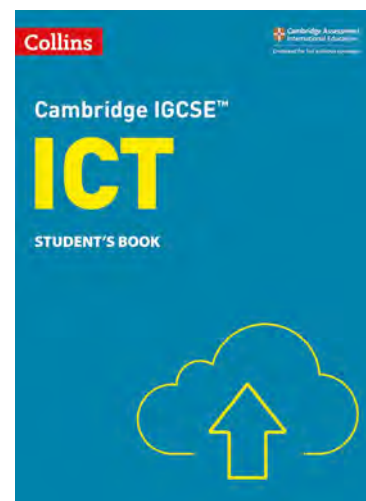
Combine theory and practical skills to help all students progress with resources directly supporting the latest Cambridge IGCSE ICT syllabus for examination from 2023.

Student's Book

- Build skills using scenarios that link together the theory and practical parts of ICT
- Ensure up-to-date knowledge with the latest hardware and software information
- Consolidate learning with end-of-session Review and Revise sections and summary boxes
- Provide opportunities for practice with exam-style questions with annotated sample answers at different grades

Teacher's Guide

- Offer comprehensive support with lesson plans to match every unit in the Student's Book
- Answer key included for every activity in the Student's Book
- Create exciting ICT lessons with PowerPoint presentations and source files available to download online



Sample page from Student's Book



Cambridge IGCSE™ ICT Revision Guide

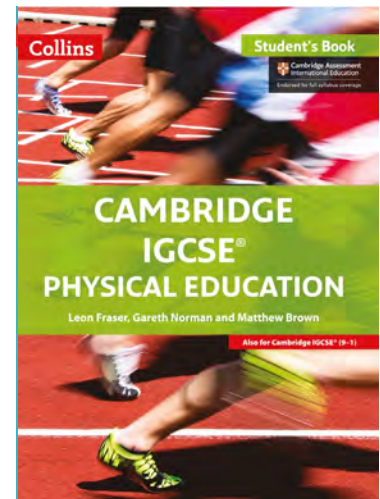
For more information see page 58.

This title is **endorsed for revision** by Cambridge International to support the syllabus for examination from 2016.

Revision

Cambridge IGCSE ICT	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-843092-4	£25.99	Student's Book	978-0-00-844701-4	£18.00
Teacher's Guide	978-0-00-843093-1	£100.00	Teacher's Guide	978-0-00-844702-1	£70.00
Revision Guide	978-0-00-821037-3	£8.99			

Cambridge IGCSE™ Physical Education (0413/0995)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2019.

Collins Connect has not been through the Cambridge International endorsement process.

Authors: Andrew Dean, Denry Machin, Mark Gardiner and James Beere

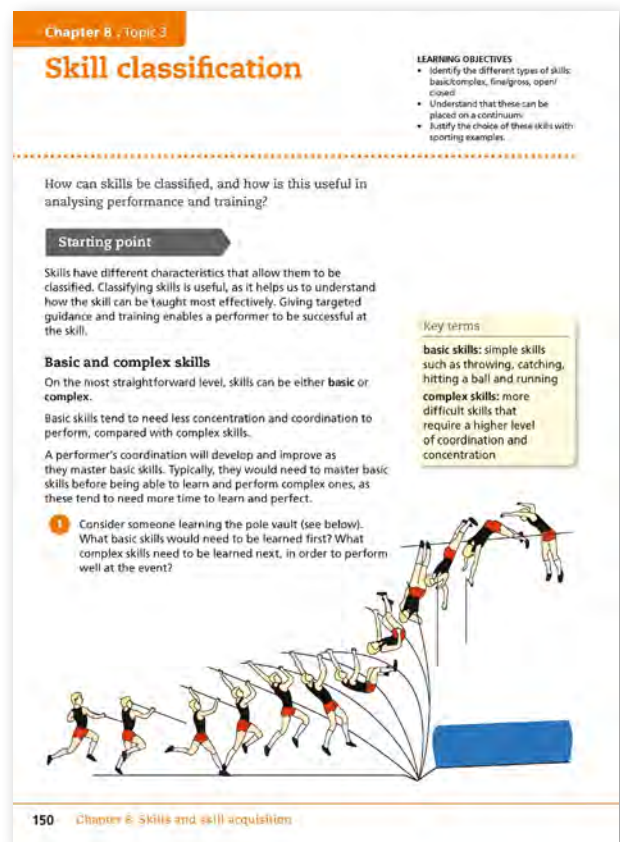
Offer comprehensive coverage of the Cambridge IGCSE PE syllabus with the only published course available.

Student's Book

- Deepen students' knowledge and understanding of key topics through the clear and concise explanations given and the contexts selected
- Support students in learning a range of skills, such as how to build self-awareness and how to reflect on their performance
- Encourage confidence and security in understanding key topics
- Enable pupils to review, record and evaluate their work
- Provide thorough preparation and monitor learning using the Learning Log and Check your Progress features

Teacher's Guide

- Assess students' progress easily with clear syllabus assessment objectives
- Adapt the Student's Book to suit the specific needs of each pupil
- Help students consolidate their learning with photocopyable handouts



Sample page from Student's Book

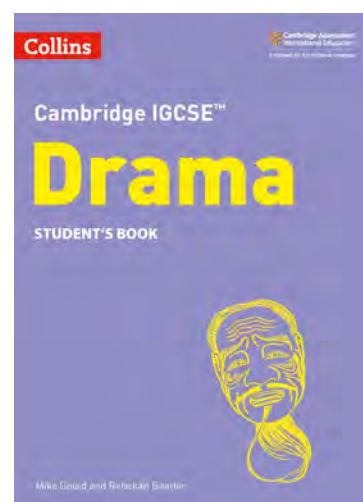
Collins Connect

- Interactive activities, to reinforce understanding of key syllabus topics
- Video clips on syllabus-related topics and the impact of these on sporting performance
- Exam-style questions written by the authors, with exemplar answers
- Downloadable Teacher's Guide containing learning sequences and photocopyable handouts

Cambridge IGCSE PE	ISBN	RRP	eBooks	ISBN	RRP
Student's Book	978-0-00-820216-3	£24.99	Student's Book	978-0-00-838341-1	£17.50
Teacher's Guide	978-0-00-820217-0	£100.00	Teacher's Guide	978-0-00-838342-8	£70.00
Collins Connect 1 year licence	978-0-00-820218-7	£250.00 + VAT			

Cambridge IGCSE™

Drama (0411/0994)



This resource is **endorsed** by Cambridge Assessment International Education to support the full syllabus for examination from 2022.

Authors: Rebekah Beattie, Mike Gould, Emma Hollis and Gail Deal

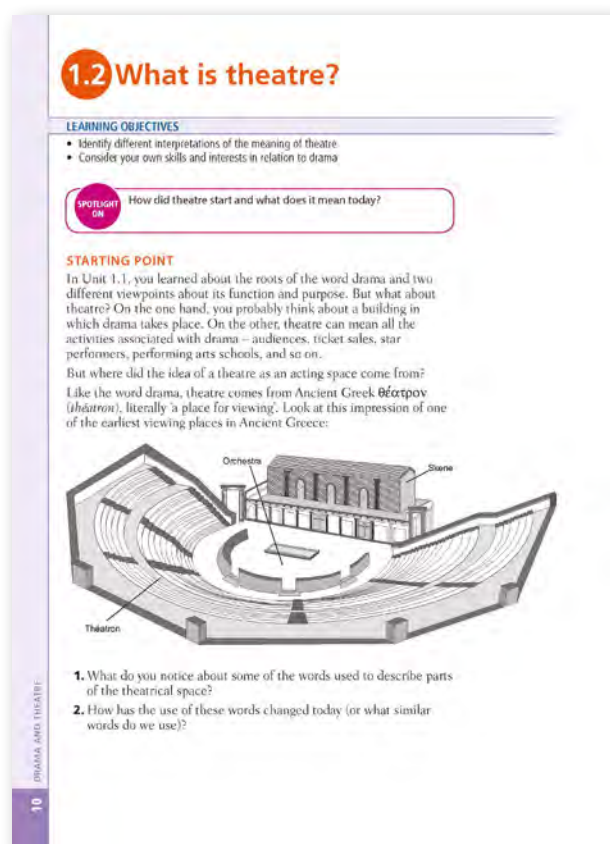
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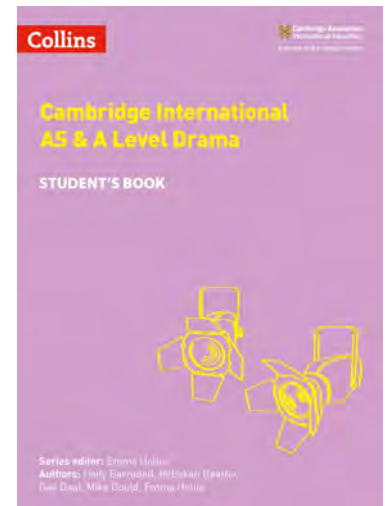
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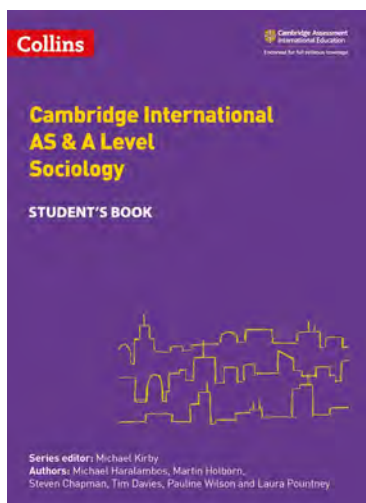


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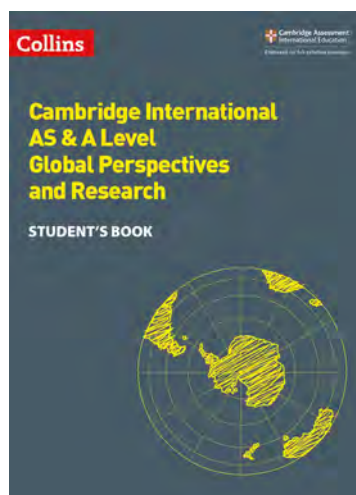
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Workbook

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- Assist learners with planning and time-keeping
- Allow students to develop a personal working portfolio which encourages self-reflection

Teacher's Guide

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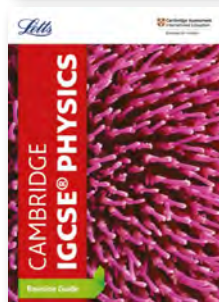
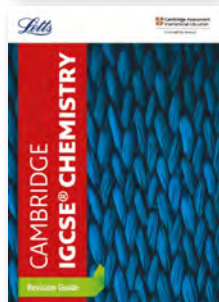
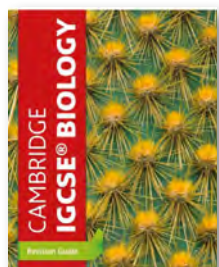
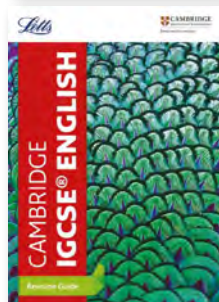
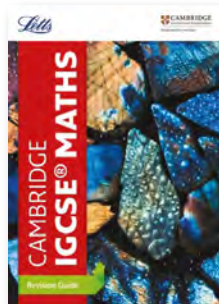
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- Revision tips to provide support as you prepare for examination
- Activities, quick tests and exam-style practice questions for every topic, so you can check your progress and develop your exam skills
- A supporting glossary with easy-to-understand definitions of key terms



How pure?

A mixture is made up of more than one substance. The substances are not chemically joined, so they can usually be separated easily.

Paper chromatography

Paper chromatography is used to separate a mixture of coloured solids dissolved in a liquid, such as the dyes in ink or food colourings.

1. Draw a pencil baseline near the bottom of a piece of chromatography paper.
2. Put a very small spot of the liquid to be analysed on the baseline using a capillary tube. (A capillary tube is a very narrow glass tube.)
3. Stand the paper in a solvent, e.g. water. The pencil line must be above the solvent.
4. The solvent moves up the paper and the components in the ink move at different rates.
5. Draw a pencil line to show the height reached by the solvent.
6. Take the paper out of the solvent and leave it to dry.
7. The paper, with its separated dyes, is called a chromatogram.

Paper chromatography shows that this ink contains three dyes. The most soluble dye travels the furthest.

Supplement

A chromatogram can be used to identify the components in a separated mixture.

$$R_f = \frac{\text{distance moved by substance from the baseline}}{\text{distance moved by solvent from the baseline}}$$

R_f is the retention factor.

The R_f value for a particular substance in a particular solvent is always the same. This means that components can be identified.

Chromatography can be used to identify colourless substances by making them visible using a locating agent.

Amino acids from proteins are colourless and are made visible using a locating agent (see page 140).

Checking the purity of solids and liquids

Pure substances have definite melting points and boiling points that can be used to identify them.

For example, pure water melts at 0°C. If it melts at a different temperature, it is contaminated with another substance.

Some substances in everyday life need to be pure, e.g. drugs used in medicines or substances added to food.

Methods of separating and purifying

Filtration

If a substance does not dissolve in a liquid it is insoluble. Insoluble solids can be removed from liquids by filtration, i.e. filtering through filter paper.

Evaporation

Evaporation will remove a liquid from dissolved solids. The liquid is called a solvent. The substance dissolved in the solvent is called a solute. The liquid is heated in an evaporating basin until only solids remain. The problem with evaporating until there is no liquid left is that all dissolved solids remain and there is still an impure substance.

Crystallisation

If there is more than one substance dissolved in a liquid, crystallisation may be used to separate them.

The solvent is evaporated until one of the solids is very concentrated and ready to form crystals. The hot solution is left to cool and crystals form. These crystals can then be filtered from other dissolved substances and dried.

Distillation

Distillation separates a liquid from dissolved solids, i.e. it separates a solvent from its solution.

The liquid boils, turns into a vapour and is condensed back to a pure liquid in a condenser.

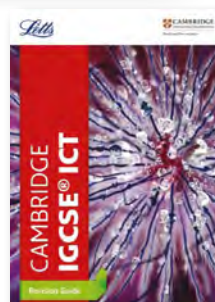
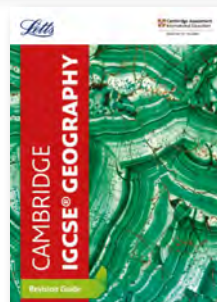
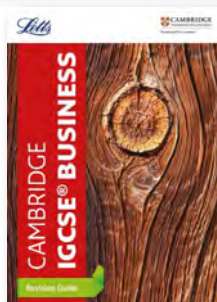
Fractional distillation

Fractional distillation separates a liquid from a mixture of two or more liquids.

The liquid mixture is heated and the liquid with the lowest boiling point vaporises first. It rises up a fractionating column and is then condensed in a condenser.

10 IGCSE Chemistry Revision Guide

The make-up of matter 11



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