

# **Supporting you at Primary and Lower Secondary**









# **Objectives of this session**



By the end of this session you will understand:

- Identified key customer needs for Primary and Lower Secondary and how we address them
- the new curriculum and how we support it
- how each component of the new series works





# Working together with Cambridge Assessment







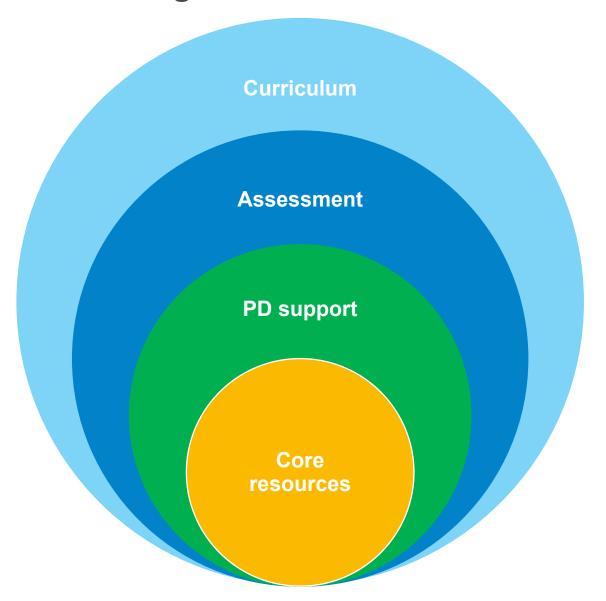


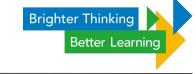




# The complete Cambridge offer









# The Cambridge approach



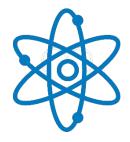




**Brighter thinkers** 



**Science of learning** 



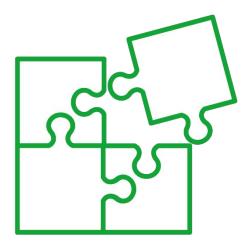
Language of learning



**Tools for learning** 



**Skills for life** 

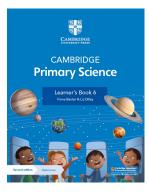


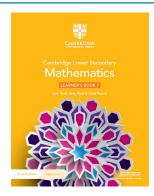


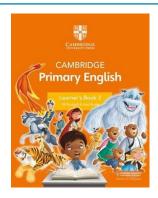


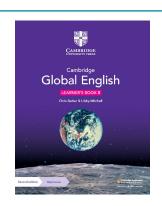
# An introduction to the series











Print components	Teacher's Resource Books 1-9	Teacher's Resource Books 1-9	Teacher's Resource Books 1-9	Teacher's Resource Books 1-9	
	Learner's Books 1-9	Learner's Books 1-9	Learner's Books 1-9	Learner's Books 1-9	
	Workbooks 1-9	Workbooks 1-9	Workbooks 1-9	Workbooks 1-9	
	English Language Skills Workbooks 7-9		Phonics Workbooks A and B		
Digital components	Digital Classroom 1-6 Digital versions of print components	Digital Classroom 1-6 Digital versions of print components	Digital versions of print components	Digital Classroom 1-9 Digital versions of print components	
PD support	Preparing to Teach, Cambridge Teaching Skills Roadmap, Cambridge Teacher Support Service				
Assessment	BASE (4-5 years), InC.	AS (5-11 years), MidYIS	(11-14 years)		





# **Understanding school needs**





Better Learning





# Differentiation – in the teacher's resource



CAMBRIDGE PRIMARY SCIENCE 4 TEACHER'S RESOURCE

name the skull, jaw, rib cage, hip, spine, leg bones and arm bones. Get learners to hold up fingers to respond:

- 1 finger = I can't do it
- 2 fingers = I can do some of it
- 3 fingers = I can do it all

If a show of fingers is not culturally unacceptable, you could use small red (I can't do it), yellow (I can do some of it) and green (I can do it all) cards instead

You can use Exercises 1–3 of Workbook 1.1 Bones and skeletons to assess learners' level of understanding of the main bones in the body.

### Think like a scientist: Make a model skeleton (30 mins)

Learning Intention: To follow instructions to make a model skeleton; say why a model is both the same as and different to the real object

Resources: Learner's Book 1.1 Bones and skeletons; examples of models, e.g. a model car or a globe of the Earth; plastic drinking straws and bottle tops, modelling clay or different shapes of pasta; scissor black construction paper or stiff card, paper glue, white paper, a pen

Description: Show examples of models to the learners. Ask the learners what real-life things the models represent. Ask how the models are the same

as the real thing. How are they different to the real thing?

Show learners the picture of the skeleton in the Learner's Book. Tell them to take note of the position, size and shape of the different bones in the skeleton. Tell learners that they should cut the straws into different lengths to make 'bones' for their skeletons. Ask them how they think they will use the bottle tops (for the skull). If learners are using pasta shapes, tell them to look for pasta shapes that are similar shapes to the different bones.

Learners should arrange the lengths of plastic straws and bottle tops or pasta shapes to make the form of a human skeleton. It does not need to be accurate but should show the general body form with a skull, jaw, spine, ribs, arms, legs and hips.

Learners should then answer the questions in the 'Ouestions' section .

### Learners should work in groups of 4–5.

- > Differentiation ideas: You can support less confident learners by placing them in mixed-ability groups. Encourage group members to work co-operatively to make the model so that all learners have a role to play.
- Assessment Ideas: You can use the assessment checklist given here for both self-assessment and teacher assessment.

How well did I:	Very well		Quite well		I needed help	
	Me	Teacher	Me	Teacher	Me	Teacher
plan how to use the different materials to make the model?						
work with my partner to make the model?						
label the different parts of the model?						
think of ways to make our model better?						
explain how the model is the same as a real skeleton?						
explain how the model is different to a real skeleton?						

### Plenary ideas

### 1 Tell your partner what you have learn (5 mins)

Description: Learners work in pairs to tell each other three things they have learnt from the topic.

> Reflection ideas: Ask learners to think about how the different activities in the topic have helped them learn about skeletons and models.

### 2 Flash cards (5 mins)

Resources: Sets of flash cards for learners with a new term learnt in this topic on one side of the card and the meanings on the other side.

Description: Use this activity as a vocabulary check for learners. Learners should use the flash cards to test one another. They should read out the meaning of a term to partner who must say the term. Learners in the pair can take turns in reading and naming the term. If you only have one set of cards, you can use them for a whole class plenary activity in which you read out the meanings of the terms and ask learners to say the term. Or you can say the term and get learners to explain the meaning of the term.

> Assessment Ideas: Learners can note how many of the new words they know. They can look up the words they didn't know in the glossary.

### Cross curricular links

Main teaching idea 1 links with sizes and shapes in Maths.

Main teaching idea 2 can be used to develop new vocabulary in English and to practise counting skills in Maths if learners count the numbers of the different bones.

Main teaching idea 3 can be linked with making collages in Arts and Crafts, and shapes and sizes in Maths.

### Homework ideas

- 1 Learners could do the Workbook Focus, Practice and Challenge sections for Topic 1.1. Discuss the answers in class and allow the learners to check their own work and correct any errors.
- 2 Learners can complete Worksheet 1.1.

### Topic worksheets

### Worksheet 1.1: Label the skeleto

This worksheet is intended to give more practice in identifying and naming the different bones of the skeleton for learners who need it. There is a Help sheet for learners who need assistance.

More confident learners can complete the Stretch sheet, in which they colour code bones of different skeletons

### 1.2 Why we need a skeleton

LEARNING OBJECTIVES					
Curriculum reference	Learning intention	Success criteria			
48s.03 Describe some of the important functions of skeletons (limited to protecting and supporting organs, enabling movement and giving shape to the body).	To be able to describe the main functions of the skeleton.	Learners can describe the main functions of the skeleton as protecting organs, allowing movement, giving shape to the body and supporting organs during activity.     Learners can understand that we grow because our skeleton grows.			

>



## Differentiation – in the learner's book

loch: lake





### n this session, you will:

- investigate some features of suspense writing
- explore the effects of language and grammatical choices
- read aloud with expression.

### Getting started

1 Adventure

Adventure stories often contain moments of suspense. The main character is usually in a dangerous situation. The situation is tense and drawn-out, which makes the reader concerned about what will happen to the character.

Look at the picture of the child in the woods. If you wrote a story based on this picture, how would you create suspense? What would happen in your story?

### Silverfin

Read the following extract from a novel by Charlie Higson. It's about a young spy called James. At this point in the story, James is trying to sneak into a castle that hides a deadly secret. The only way to get in is to walk along a branch that hangs over a lake. Kelly is James's friend.

He struggled on up through the tangle of small twigs and young limbs. After some careful searching, he found a suitable branch. In fact it was probably his only hope, because it was the last branch that looked as if it would be strong enough to support him. He lay down on it, gripping it with his legs, and slowly slid himself away from the trunk and out over the loch.

He looked down at the black waters, so still now, but he could picture the eels beneath the surface, lying in the stinking mud at the bottom, their wide snouts sticking out, waiting patiently. His one consolation was that if the fall didn't kill him, it would at least knock him unconscious, and he would know nothing about sinking down through the dark waters towards their slimy mouths.

He suddenly felt very lonely. If he fell, Kelly wouldn't come, and nobody else knew he was here. He was utterly alone.

He forced his eyes away from the water towards the wall ahead of him. The branch was bending sharply now, and he found himself crawling downwards towards its tip, so that there was a very real danger of slipping forward and off the end. Best not to think about that.

Slowly he shuffled along. The castle was six feet away, five . . . four . . . The branch was swaying alarmingly. He felt like he could tip off at any moment.

### He stopped.

The wall was still three feet away . .

### He didn't move.

He knew it wasn't going to work. The branch wasn't long enough. It was too thin. If he went any further, he would be past the point of no return. He'd be stuck.

He glanced down, he was over the ground now, at the foot of the wall. That would be worse than hitting the water, eels or no eels. He closed his eyes and slowed his breathing, trying to calm the mounting panic.

### And then he heard it.

First a creak. Like a loose tread on a staircase.

### And then a crack.

He felt the branch shudder . . . It was splitting.

### 1 In your notebook:

- a list the dangers and problems that the main character faces
- b note down how you think James feels
- c write down the six most exciting sentences in the story.
  Find a partner and compare your ideas. Do you agree?
- 2 Imagine you are making a film based on Silverfin. Create a storyboard of six images that show the most important parts of the story. Choose your images carefully – which ones would help to create a feeling of suspense?

### ey word

1.5 Danger!

storyboard: a series of drawings or images showing the planned order of images in frames (in films and television)

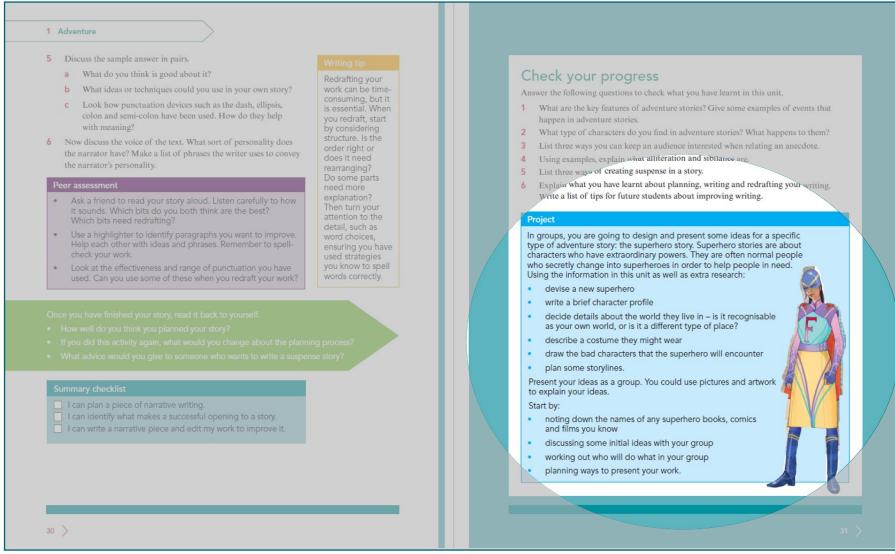
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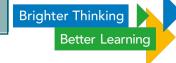




# Differentiation – in the learner's book



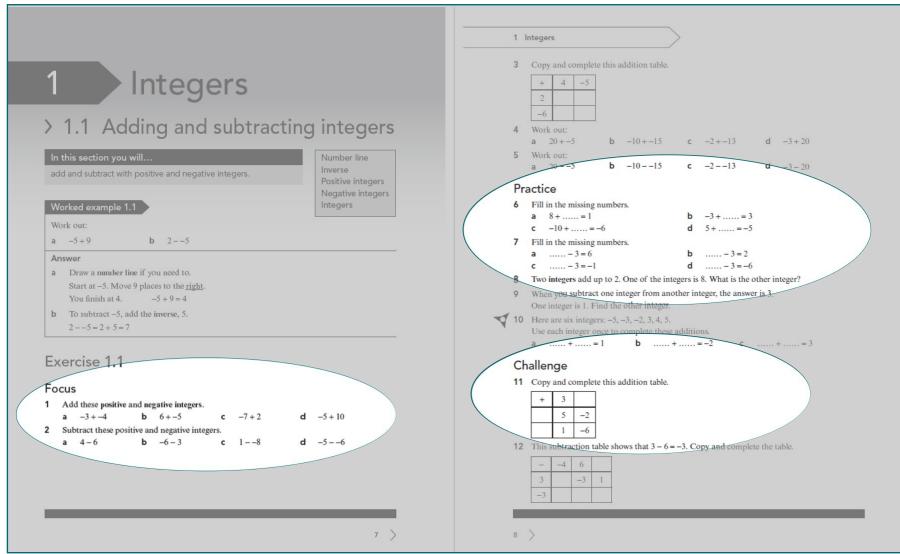


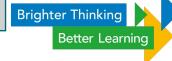




## Differentiation – in the workbook





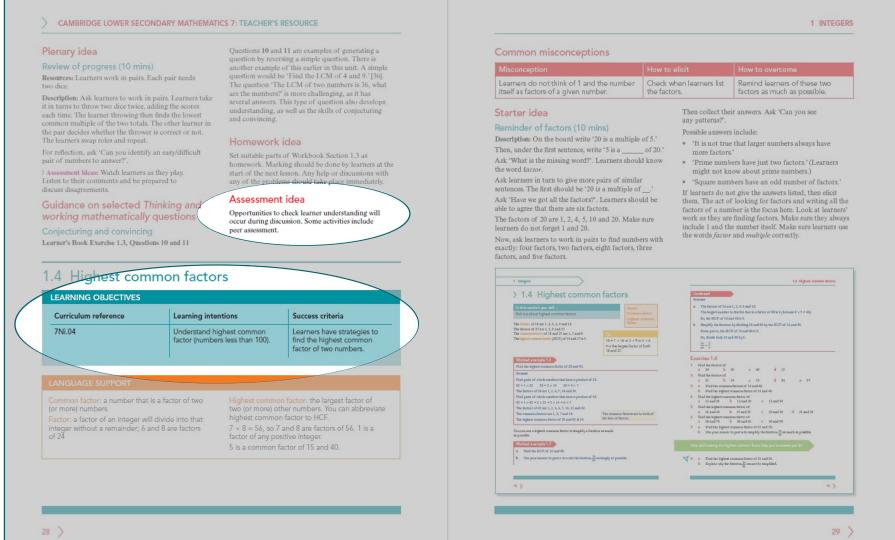






# Assessment for learning – in the teacher's resource









# Assessment for learning – in the teacher's resource



Name [	Date
Stage 7 End of unit 1 test	
alculators are not allowed.	
Work out:	
a 8+-12	
<b>b</b> -6 = -9	
	[2
Fill in the missing integer in each calculation.	
a _ × 5 = -15 b _ ÷ 4 = -8	To.)
	[2]
Find the lowest common multiple of 6 and 10.	r <sub>a</sub>
Find the highest common factor of 24 and 40.	[2
	[2
Work out <del>₹125</del> – <del>₹27</del> .	
The cube root of a number is 4. Work out the square root of the number.	[1
The Arthur Art Court Find to the Decision of Market School School State (School School	[2
The highest common factor of two numbers is 3.The lowest common mu of the two numbers is 18.	ltiple
Work out the two numbers.	
	[2





# Assessment for learning – in the learner's book



The second sentence is longer and more detailed. The first clause introduces an image of the clutter of the station. The subordinate clause (who was winding . . . ) contains more detail, using 'and' twice. The effect is to convey the huge number of things in the station. The length and detail of the sentence reflects the detail of the scene being described.

Copy and complete the following table in your notebook to identify examples of simple, compound and complex sentences comment on their effect. Explain how the writer builds up detail and the impression this gives the reader.

Sentence type	Example	Effect
Simple		
Compound		
Complex		

5 In Activity 1, you told an anecdote about difficult journey. Now turn this into a written version. Before you write, think about how you will describe the scene. Remember how the extract uses lots of images, lists and interesting words to bring the scene to life. Use a range of simple, compound and complex sentences to add detail and variety to your writing.

### Peer assessment

Share your finished account with another student. Discuss the following questions:

- Which bits of your writing do you think are most effective and why?
- Did you use a variety of sentences?
- If you were to redraft your work, what would you do differently?

### Summary checklist

- I can use language to engage listeners in a spoken account.
- I can identify and understand implicit information in a text.
- I can use different sentence types to write an interesting account.

### 1.3 Train trouble

clause: a group

Remember that the language and style of written accounts spoken accounts, so think carefully about the way you phrase your writing. For example, people often do not speak in although you can hear where ideas

start and end, but you must

always write in full

1 Adventure

### > 1.4 A hard journey

- · look for explicit and implicit meanings in poetry
- explore how poets use language features for effect
- · learn how to write an analysis of a poem.

### Getting started

Some people and some poems describe life as a journey. In pairs, discuss what life has in common with a journey. How could life be described as an adventure?

### 'Hard is the Journey'

Read the following poem by Li Po, an 8th century Chinese poet.

Jade dishes of rare meats, costing more thousands,

I lay my chopsticks down, no more can banquet, I draw my sword and stare

Ice bars my way to cross the Yellow River, Snows from dark skies to

wildly about me:

the T'ai-hang mountains!

At peace I drop a hook into a brooklet,

vessels: hollow

containers

jade: a hard,

green stone

a small stream

a feast

At once I'm in a boat

(Hard is the journey, Hard is the journey, So many turnings, And now where am I?)

So when a breeze breaks bringing fair weather,

cross the blue oceans!

Brighter Thinking **Better Learning** 





# Language support – teacher's resource



CAMBRIDGE LOWER SECONDARY MATHEMATICS 7: TEACHER'S RESOURCE

Assessment for learning

### 1.1 Adding and subtracting integers

Curriculum reference	Learning intentions	Success criteria
7Ni.01	Estimate, add and subtract integers, recognising generalisations.	Learners can successfully work out additions; e.g. 6 + -8, -5 + 3 and -5 + -3.  Learners can successfully work out subtractions by adding the inverse; e.g2 - 4 = -2 + -4 = -6 or 35 = 3 + 5 = 8.

LANGUAGE SUPPORT

Integers: the whole numbers: ..., -3, -2, -1, 0, 1, 2, 3, ...

Inverse: the operation that has the opposite effect; the inverse of 'add 5' is 'subtract 5'

Inverse operation: the operation that reverses the effect of another operation

Negative integers: the whole numbers less than zero: -1, -2, -3, -4, ...

Number line: a line used to show numbers in their correct position

Positive integers: the whole numbers greater than zero: 1, 2, 3, 4, ...

INTEGERS

An integer is a whole number that can be positive, negative or zero (e.g. 3, -5 and 0). You often show integers on a number line.

An inverse operation has the opposite effect of a given operation. The inverse of adding 2 is subtracting 2. The inverse of multiplying by 3 is dividing by 3. The inverse of squaring is finding the square root. The inverse of cubing is finding the cube root.

### Common misconceptions

Misconception	How to elicit	How to overcome
Making mistakes with subtraction	Ask questions such as What is 3 – -4?'. Possible incorrect answers are 1 or -1.	Encourage learners to always change a subtraction to an addition of the inverse.
		So 34 = 3 + 4 = 7.

### Starter idea

Resources: Getting started exercise at the start of Unit 1 of the Learner's Book.

Description: Give learners 5 minutes to look at the questions. Then on the board write the statement '\_\_\_ is a multiple of 3.'

Ask 'What numbers between 1 and 20 could you write in the space?'.

Then on the board write ' is a factor of 20.'

Ask 'What numbers between 1 and 20 could you write in the space?'.

Then on the board write '\_\_\_ is a square number.'

Ask 'What numbers between 1 and 20 could you write in the space?'.

During this questioning, listen for uncertainties about the meaning of 'multiple', 'factor' or 'square number'

Now ask learners to do the Getting started exercise at the start of Unit 1 of the Learner's Book.







# Language support – teacher's resource





CAMBRIDGE LOWER SECONDARY MATHS STAGE 7 UNIT 1: VOCABULARY				
Name	Date			

# EAL Worksheet: 1.1-1.3

### Unit 1 Vocabulary worksheet 1 1.1–1.3

1 Find the word that matches each definition in the word grid. The first one has been done for

a	u	t	s	k	1	m	o	e	у
i	q	p	r	o	d	u	c	t	w
n	u	m	b	e	r	1	i	n	e
v	t	i	z	m	a	t	h	s	d
e	a	k	1	t	w	i	o	i	u
r	c	j	o	h	k	p	d	g	j
s	х	h	a	q	p	1	t	n	ь
e	ъ	m	i	n	t	e	g	e	r

b The number you get when you multiply two or more numbers c Any whole number; it can be positive, negative or zero; e.g. 5, 18, -26, -109, 0. d A line used to show numbers in the correct order e The result you get when you multiply a number by a positive integer. f The operation that has the opposite effect of another operation e.g. dividing has the opposite effect to multiplying	a <u>maths</u>	The study of numbers, signs and symbols
e.g. 5, 18, -26, -109, 0.  d	b	The number you get when you multiply two or more numbers
d A line used to show numbers in the correct order  e The result you get when you multiply a number by a positive integer.  f The operation that has the opposite effect of another operation	c	Any whole number; it can be positive, negative or zero;
e The result you get when you multiply a number by a positive integer.  f The operation that has the opposite effect of another operation		e.g. 5, 18, -26, -109, 0.
a positive integer.  f The operation that has the opposite effect of another operation	d	A line used to show numbers in the correct order
f The operation that has the opposite effect of another operation	e	The result you get when you multiply a number by
		a positive integer.
e.g. dividing has the opposite effect to multiplying	f	The operation that has the opposite effect of another operation;
		e.g. dividing has the opposite effect to multiplying

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N	ame Date
2	Complete the maths vocabulary. The first letter of each missing term is given. The first one has been done for you.
	a maths problem A question that needs numbers, signs and/or symbols to solve.
	<b>b</b> p integer Any whole number greater than zero; e.g. 3, 57, 149
	c n integer Any whole number less than zero; e.g5, -48, -442
	d c multiple A number that is a multiple of two (or more) different numbers
3	Mark each statement as either correct or incorrect. Correct any mistakes. The first one has bee done for you.
	$5, 6\frac{1}{2}$ and 11 are integers.
	a
	Incorrect; $6\frac{1}{2}$ is a mixed number, not an interger.
	50 + 50 = 100  and  100 - 50 = 50 are inverse operations because
	they reverse each other.
	b
	The lowest common multiple is
	any small number that is a multiple of two numbers.
	c
	LCM stands for lowest common multiple.
	d



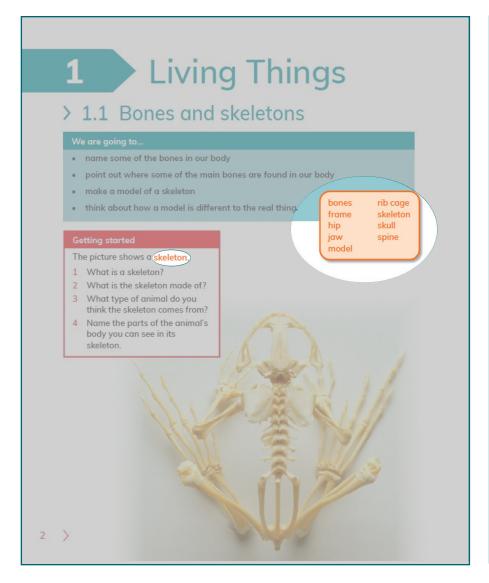
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2 >



# Language support – learner's books





### Glossary and index to take in a substance. For example, if you absorb spill a liquid you can pat it with a paper towel. The paper towel absorbs the liquid 105 anticlockwise the opposite of clockwise which is the 113 direction the hands of the clock move the movement does not really happen but it apparent movement 118 looks like it happens burnt material. For example, the grey ash powdery material left when wood has burnt 75 a rocky mass that orbits the sun. These are asteroid 110 similar to planets but much smaller anything that spins or rotates has to turn axis around a central line. This line is the axis 113 a source of energy, made up of more than battery 140 one cell, which pushes electricity around a circuit 88 beak the part of a bird used to catch and hold food hard, strong parts inside our body that give bones our body shape and keep us upright brightly (adverb) shines with a stronger light 142 brightness (noun) how strong the light shines 142 cable a rope of wires 133 43 carnivore an animal that eats other animals change of state when materials and substances change from one form to another when they are heated or cooled 58 chemical reaction when we mix together two substances and they both change to make a new substance 64

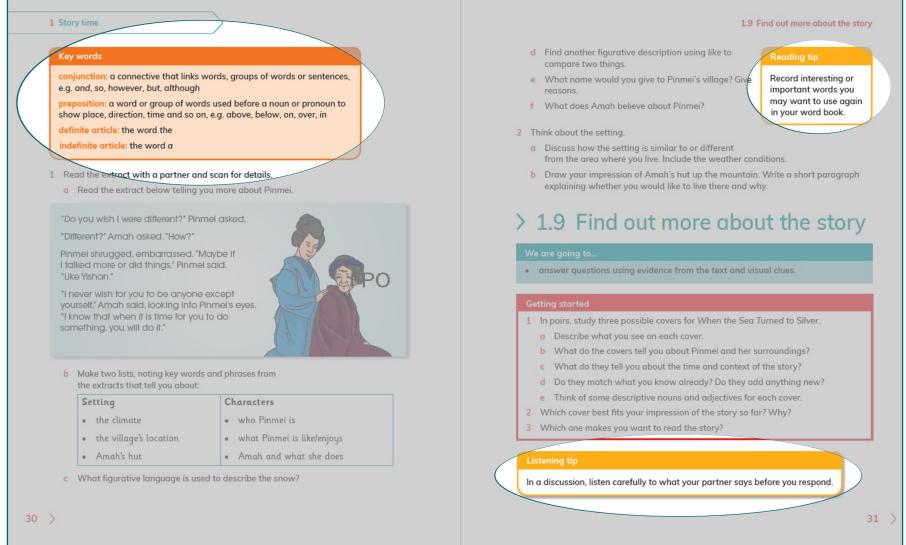
Brighter Thinking

Better Learning



# Language support – learner's books











# **Pedagogy**



GLOBAL ENGLISH 7 TEACHER'S RESOURCE

# > Setting up for success

Our aim is to support better learning in the classroom with resources that allow for increased learner autonomy while supporting teachers to facilitate student learning.

Through an active learning approach of enquiry-led tasks, open-ended questions and opportunities to externalise thinking in a variety of ways, learners will develop analysis, evaluation and problem-solving skills.

Some ideas to consider to encourage an active learning environment are as follows:

- Set up seating to make group work easy.
- Create classroom routines to help learners to transition between different types of activity
  efficiently, e.g. move from pair work to listening to the teacher to independent work.
- Source mini-whiteboards, which allow you to get feedback from all learners rapidly.
- Start a portfolio for each learner, keeping key pieces of work to show progress at parent-teacher days.
- · Have a display area with learner work and vocab flashcards.

### Planning for active learning

- Planning learning intentions and success criteria: these are the most important feature of the lesson. Teachers and learners need to know where they are going in order to plan a route to get there.
- 2 Introducing the lesson: include a 'hook' or starter to engage learners using imaginative strategies. This should be an activity where all learners are active from the start of the lesson.
- Managing active support; coordinate logical and orderly transitions between activities; make sure that learning is active and all learners are engaged; create opportunities for discussion around key concepts.
- Assessment for Learning and differentiation: use a wide range of Assessment for Learning techniques and adapt activities to a wide range of abilities. Address misconceptions at appropriate points and give meaningful oral and written feedback which learners can act on
- Plenary and reflection: at the end of each activity and at the end of each lesson, try to: ask learners to reflect on what they have learnt compared to the beginning of the lesson; build on and extend this learning.

For more guidance on successfully implementing active learning strategies in this course, please visit our website and explore our Setting up for Success Workshop Packs.

A blank Lesson Plan template is available to download to help planning using this approach.





# **Pedagogy**



Lesson	Approximate number of learning hours	Outline of learning content	Learning objectives	Resources
8 Project challenge	1.30	Doing a project.	7Sc.04 7Sor.01 7Wca.02 Wc.02	Learner's Book Lesson 2.8 Workbook Lesson 2.8
9 Two poems about festivals	2.10	Talking about two poems.	7So.01 7Rm.02	Learner's Book Lesson 2.9 Workbook Lesson 2.8  Photocopiable 8

### BACKGROUND KNOWLEDGE

Swahili is a language spoken mainly in some countries of Africa: Tanzania, Uganda and Kenya, Burundi, Mozambique, Somalia, the Democratic Republic of the Congo, and South Africa by about 98 million people. It is the official language of Tanzania, Uganda and Kenya, and is used as a lingua franca throughout East Africa.

The Yoruba people are an African ethnic group that lives in western Africa. There are about 44 million Yoruba people, most of which are from Nigeria and Benin, where they make up 16% of the population. They are one of the largest ethnic groups in Africa. Judith Nicholls is one of England's best-known writers of children's poetry. She has published over 50 books. She was a teacher before becoming

a poet, and this has helped her develop a deep understanding of what children like. Some of her books are: Earthways, Earthwise: Poems on Conservation, Otherworlds, Dragonsfire and Midnight Forest.

John Poster is probably one Englands obset-loved children's poets. He was a teacher for over twenty years while writing poetry for children. Many of his poems use traditional forms and end rhymes, and his haikus and other short poems use strong, simple imagery. Some of his books are: Dinosaur Poems, Fantastic Football Poems and Twinkle Twinkle Chocolate Bar.

Additional resources: You may show the class videos about popular festivals around the world.

### TEACHING SKILLS FOCUS

### Assessment for Learning

Assessment for Learning is looking for and interpreting evidence of learning that you can then use to help learners learn better, or that learners themselves can use to improve their learning by means of a self-reflection process. This formative assessment helps you to identify, where the learners are now in terms of the learning objectives, to diagnose what you need to do to help them overcome difficulties, to give feedback and to give students time to make the necessary changes.

Strategies that constitute Assessment for Learning:

Pre-assess students to determine their current level

- Share learning goals with learners
- Share or create learning criteria with the class
- · Use higher-order questions
- Use challenging tasks that elicit Jeanners' responses
- Identify the gaps between where learners are now and the desired goals
- Use peer and self-assessment
- Provide feedback that helps learners identify how to improve
- Praise learners for their progress.

### 2 CELEBRATIONS

### CONTINUE

### Your challenge

Look through Unit 2 and highlight opportunities for introducing strategies that are part of Assessment for Learning.

As you continue with the following units, tick off the relevant points where you might apply strategies that constitute assessment for learning Some strategies or approaches are useful in certain contexts but not in others. What forms of assessment for learning can be used at during those lessons?

### Reflection

- Parents and school authorities may not see a need for Assessment for Learning. How can you convey the importance of this form of assessment to them?
- What opportunities for correction and opportunities to try again can I introduce in my lessons as a result of Assessment for Learning?

### Common misconceptions

Misconception	How to identify	How to overcome
Learners use the wrong preposition, e.g. The meeting is in 20th June. Are you open in lunchtimes? I'm afraid I can only make it on July.	Write examples on the board. Ask questions, e.g. what do we use with days and dates/months/ times, etc.? Circle the preposition.	Draw a 3-column chart on the board or on a large sheet of paper. Write on top of each column: at for a precise time; in for months, years, centuries and long periods; or for days and dates. Ask learners to give examples for each and write them in the correct column.
Learners use the wrong participle to form the adjective, e.g. I'm really frightening of spiders.	Write the wrong sentences on the board. Ask: Are you afraid of spiders or do you frighten the spiders?	Explain the difference in the meaning of -ed and -ing adjectives. Try to make them funny enough so they're memorable, e.g. I'm bored/I'm boring. Learners circle or underline the adjectives and say what they mean.
Learners use the wrong punctuation in non-defining relative clauses.	Write an example of a defining and a non-defining relative clause. Ask: Which sentence gives essential information? Which gives extra information? What other difference is there? (Such as the use of the comma). In which sentence do we use a comma?	Write on the board a few defining and non-defining clauses without commas. Ask learners to underline the clauses and decide if they are giving essential or extra information. They put in the commas as necessary.

32 >

Brighter Thinking

Better Learning

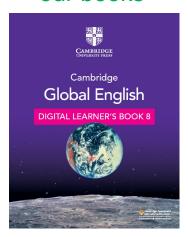




# Supporting effective teaching and learning digitally



# Digital versions of our books



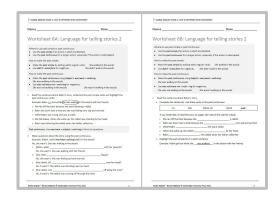
- Access to your resources wherever you need them
- Comes free with your print book
- Digital only versions of learner's books also available

# Interactive, whole class teaching



- Page faithful versions of student books
- Interactive activities
- Play audio and video from the page
- Zoom, highlight and annotate
- Site licence

# Additional teaching content



- Available with all our teacher's resources
- Differentiation worksheets
- Language worksheets
- Audio
- Tests
- Answers



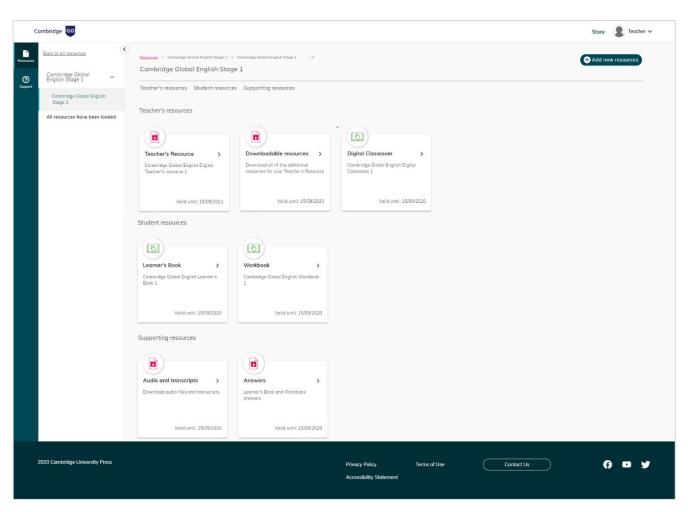


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# Why choose Cambridge?





- Complete alignment with Cambridge International
- Integrated resources, professional development and assessment
- Resources developed to support effective pedagogy
- A set of fully harmonised resources
- ✓ A range of print and digital resources to meet all your needs
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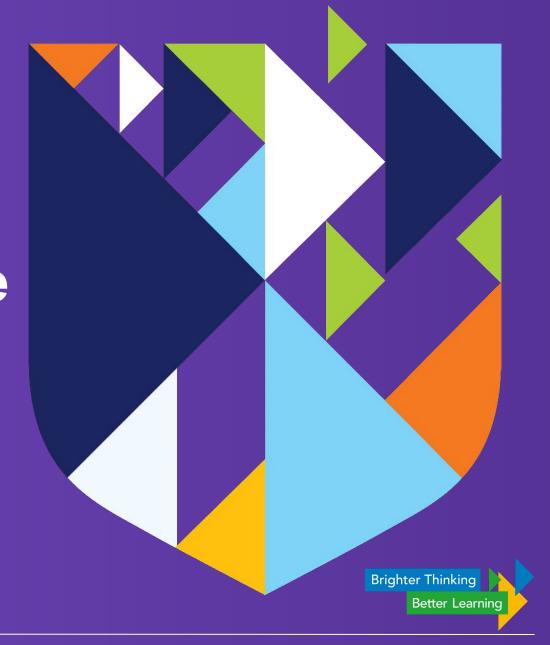




# Cambridge Primary and Lower Secondary Science



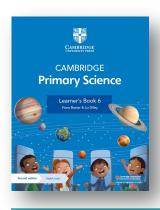




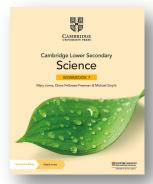


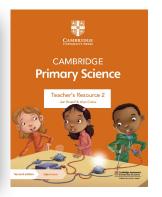
# **Series components**

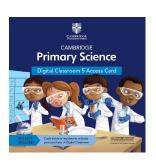














Learner's book with digital access stage 1 - 9

Core learner activities

Digital learner's book stage 1-9

Digital only version of the learner's book

Workbook with digital access stage 1-9

Additional, differentiated practice opportunities Teacher's resource with digital access stage 1-9

Everything teachers need to plan and run the course

Digital Classroom stage 1-6

Onscreen
version of the
learner's book
and workbook
with interactive
activities and
video

English language skills workbook stage 7-9

Opportunities for learner's to develop their language skills and scientific vocabulary



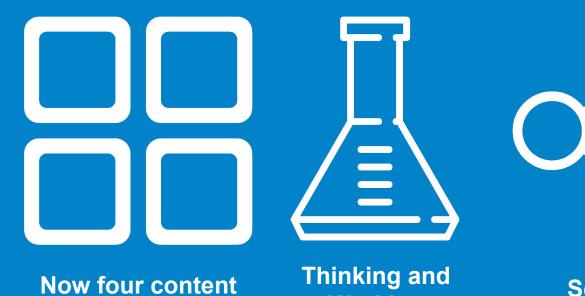


# Key curriculum changes for first teach in 2021

Cambridge Primary & Lower Secondary Science

Working

**Scientifically** 



Science in context

Clear progression through stages

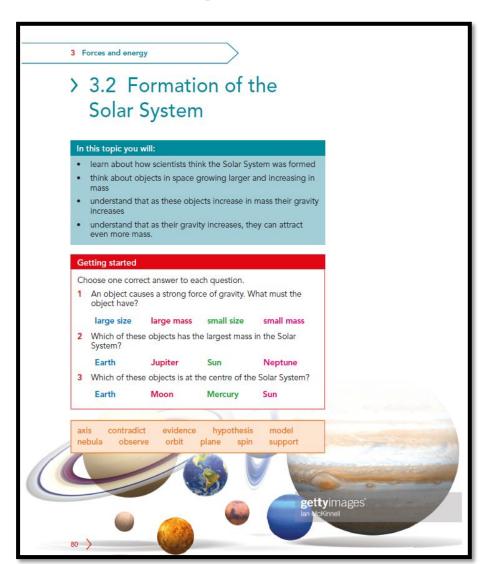


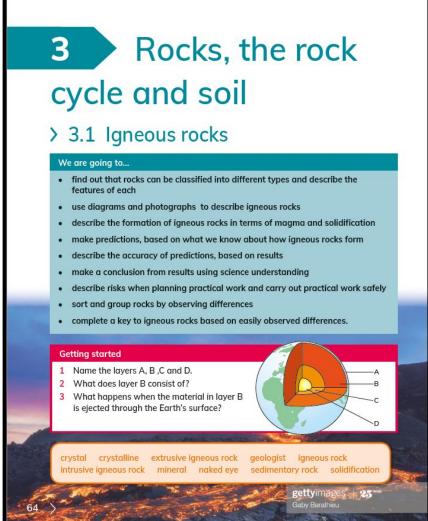
strands

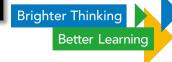


# Earth and space











4 Earth and its

> 4.1 The structure of the Earth

describe a model of the structure of the Earth

habitats

What shape is the Earth?

What does the surface of the What do you think might be underneath the surface? The solid white part at the bottom of the image is ice. Use the particle model to describe how the ice becomes water in the blue parts of the image. What do we call this change?

What provides the energy that

# **Earth and space**

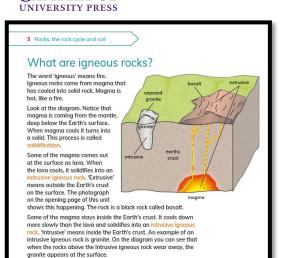
What is inside the Earth?

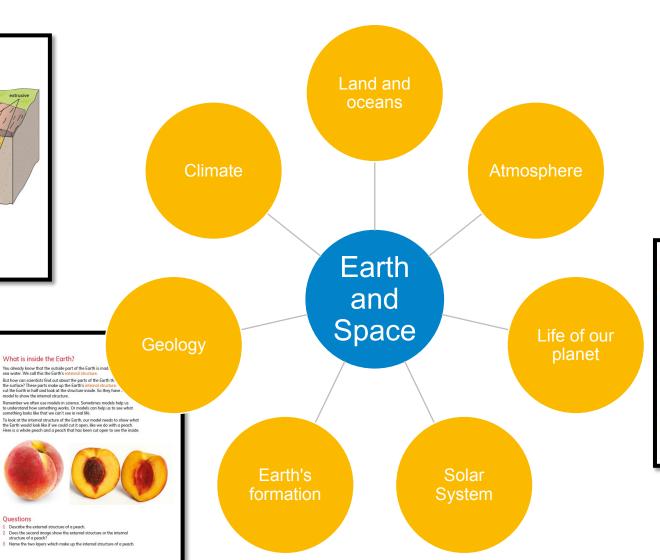
model to show the internal structure.

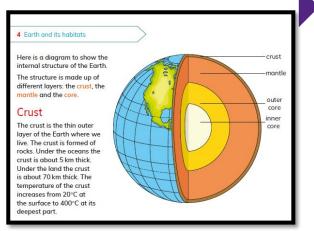
Questions

Describe the external structure of a peach.

You already know that the outside part of the Earth is mad-sea water. We call this the Earth's external structure.







Some of the magma forces its way through cracks in the sides of the volcano. When this magma erupts it forms baby volcanoes called secondary

### **Ouestions**

Look at the photograph of flowing lava on

- 1 Point to the lava that is still flowing.
- 2 Point to the lava that has cooled down and hardened

Look at the diagram of a volcano and the photograph of a volcano. The diagram is a model of the real thing.

3 Talk about features of the volcano that you can see on the photograph and the





# Thinking and working scientifically



Thinking and Working Scientifically provides learning objectives describing the approaches to scientific thinking and working that need be developed across the four content strands.



### Think like a scientist 3.4.1

### Investigate a soil sample

- 1 Collect some soil in a tin or a jar and bring it to the classroom.
- 2 Predict what you think the soil is made of.
- 3 Spread the soil on to a sheet of newspaper.
- 4 Observe the soil. Discuss these questions in your group to help you to decide what the soil is made of.

### **Ouestions**

- 1 What colour is the soil?
- 2 Are there any stones in the soil?
- 3 Are the particles of soil the same size?
- 4 Rub some of the soil between your fingers. Describe how it feels. Choose from these words: rough, smooth, sticky, crumbly, damp, dry. These words describe the soil's texture.
- 5 What do you think the particles of soil are made from?
- 6 Is there any organic matter in the soil? Organic matter is living things or things which were alive such as dead leaves, bits of root and twigs.
- 7 Animals are also organic matter. Are there any animals such as ants or worms in your soil sample?
- 8 What do you think is between the particles of soil?
- 9 Does the soil contain any water?

### Think like a scientist 6.2.1

Demonstrate how light travels when it refracts

### You will need:

- a glass of water and a pencil
- 1 Predict what you will see when you put the pencil into the water.
  Put the pencil in the glass of water.
- 2 Observe the pencil in the glass from the side.
- 3 Observe the pencil in the glass from the top.
- 4 Take out the pencil. Is it changed in any way?

### Questions

- 1 Did what you saw match your prediction?
- 2 Draw a picture of the pencil in the glass from the side.
- 3 Draw a picture of the pencil in the glass from the top.
- 4 Why is what you saw an optical illusion?
- 5 Which mediums does the light pass through between the pencil
- 6 Describe what you saw. Complete these sentences.

### Continued

- 5 Describe what you saw. Complete these sentences.

  Light from the pencil travels through the \_\_\_\_\_ in the glass and then \_\_\_\_ when it passes through the glass to the \_\_\_\_\_ .
- 6 Write a conclusion to explain why the pencil appeared to bend, using your scientific knowledge of refraction.
- 7 Think back to the paper with the arrows on it behind the glass of water. Repeat the demonstration. Try to explain what happened using what you know about refraction.

### How are we doing?

How well have you and your group done the demonstrations?

How well can you explain what happened using your scientific knowledge of refraction?

Choose from:

'We can explain refraction well' or 'We are learning how to explain refraction' or 'We need some help'

Brighter Thinking

Better Learning



# Thinking and working scientifically



### Think like a scientist

### Measuring heat and temperature

In this investigation, you will make measurements of both heat and temperature. Work in groups of three of four.

### You need

See diagram

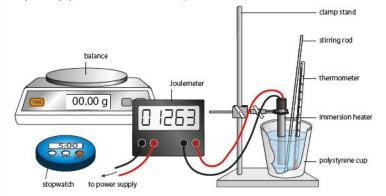
### Safety

Do not touch the immersion heater while it is switched on.

Clamp the immersion heater so that it does not contact the bottom of the cup.

### Method

Set up the equipment as shown in the diagram.



- 1 Put a known mass of water into the polystyrene cup.
- 2 Measure and record the temperature of the water at the start of the experiment.
- 3 Set the joule meter to zero or record the reading at the start.
- 4 Switch on the immersion heater and start the timer.
- 5 Use the stirrer to mix the water just before every minute and measure the water temperature every minute.
- 6 Record the reading on the joule meter every minute.

### Continued

- 7 Continue with the temperature measurements until the temperature of the water has increased by 10 °C.
- 8 Switch off the immersion heater and allow it to cool.

### Questions

- Record your results in a table.
- 2 Plot a line graph with temperature on the vertical axis and energy on the horizontal axis.
- 3 Describe the trend in the results.
- 4 If you were to repeat this experiment, list three variables that should be the same.
- Most of the thermal energy from the immersion heater is transferred to increase the temperature of the water. List three other ways that thermal energy can be transferred in this investigation.
- 6 Suggest two ways to ensure that more thermal energy from the immersion heater is transferred to the water.

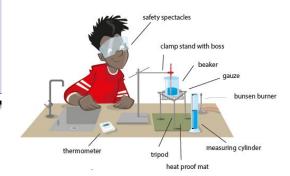
### Self-assessment

Decide how well you did each of these things:

- making measurements at the correct time
- recording results in a table
- drawing the graph of the results

Choose one thing that you could do better next time.

How will you do this better next time? What will you change?







# **Science in context - Projects**



**Project: Frozen foods** 

Have you ever eaten ice cream? Ice cream is a frozen food. We can buy many different foods that are frozen.

### Part 1

Speak to people in your community who use frozen foods, or do some research in shops to find out:

- · why people freeze foods
- · which foods are often frozen
- how people prepare the frozen foods for eating.

### Part 2

- 1 Plan an investigation to find out how much time it takes for different foods to freeze. Choose a question to investigate, such as:
  - Which liquids freeze quickest?
  - Do solid foods freeze faster than liquids?

You can think of your own question to investigate, if you wish.

2 Choose the materials and equipment you will need. Here are some ideas:

You should test five or six different foods.

- 3 Think about:
- the factors you will keep the same and the factors you will change to make your investigation a fair test
- how often you need to check if the foods are frozen, for example every 30 minutes or every hour
- · how you will test if the food is frozen or not
- how you will record your results.
- 4 Carry out your investigation.
- 5 Draw a graph of your results.
- 6 Make a conclusion for your investigation based on your results and the question you investigated.

### Part 3

Prepare a presentation to tell your class about your findings from Part 1 and Par of this project. Your presentation should include pictures, graphs or drawings.

 Science in Context provides a framework for how context can be incorporated into the teaching of science.

### Project: Where is the evidence?

When manufacturers want to sell you their products, they make claims about them, or offer you deals to make you think this is the best brand to buy. Sometimes a deal seems very good, such as "50% extra for free" or "buy one get one free". To know if it is a good deal there are some questions you need to ask, such as:

- 50% more than what?
- Is it cheaper than buying the regular size?
- Have they increased the price?
- Does buying two give me a better deal than just buying a larger size?

To find out, you would need to do some research into the sizes and prices of the packs and work out how much they each cost per 100 g or 100 cm<sup>3</sup>.

Some manufacturers make claims for their products, such as: "80% of women said that after using this shampoo their hair was stronger" What does this mean?

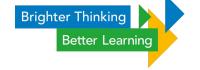
Here are some points you need to consider:

- Stronger than what?
- How do the women know this?
- How could you find out?
- How many women did they ask?
- Which type of hair: long, short, curly or straight?

### Project: How people use science

In this unit you have found out about the structure of the Earth and volcanoes. You know that it gets hotter as you go deeper into the crust. We see evidence of this when lava erupts at the surface in a volcano. We also see this when water from deep in the crust reaches the surface as a hot spring. People make use of these things. They can use the hot water in their homes or make the hot springs into a tourist attraction. Volcanoes are also tourist attractions. Many people choose to live on the sides of a volcano because the soil is rich and crops grow well.

- Find out how people make use of a hot spring or a volcano in your country.
   If there isn't one in your country choose one in another country.
- Name the volcano or hot spring and describe where it is. You can draw a map to show this. Describe how it used by people.
- Present your project as a poster. Illustrate with photographs or drawings or pictures cut out of magazines.
- Use colours and pictures to make your poster eye-catching.
- Remember to give your poster a heading









# Resource walkthrough





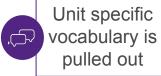
# Learner's book

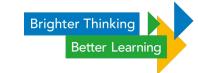


'Getting started' feature helps students think and talk about what they already know



5.1 How we see things How do we see things that are not sources of light? Let's investigate this question in the next activity. Think like a scientist Investigate how we see an object You will need: a large cardboard box with lid, a flashlight with batteries, a small object such as a coin, a pen knife or craft knife Be careful when you use the knife. · Cut two holes in the lid of the box as shown in the picture. One hole must be big enough for your flashlight to fit through and the other hole must be big enough for you to see through. Place the coin on the bottom of the box. Replace the lid on the box. · Cover the flashlight hole with your hand. Predict whether you will be able to see the coin when you look through the other hole. · Test your prediction. · Shine your flashlight though the flashlight hole. Predict whether you will be able to see the coin now when you look through the other hole. Test your prediction.





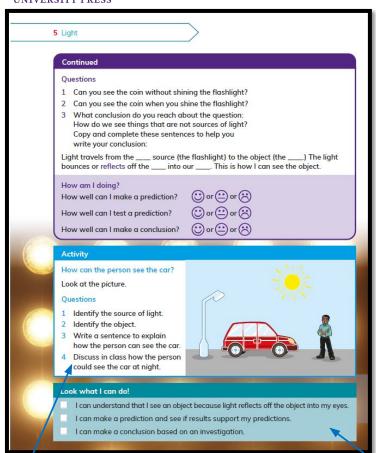


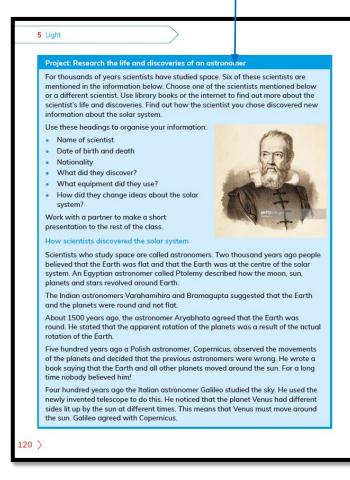
## Learner's Book

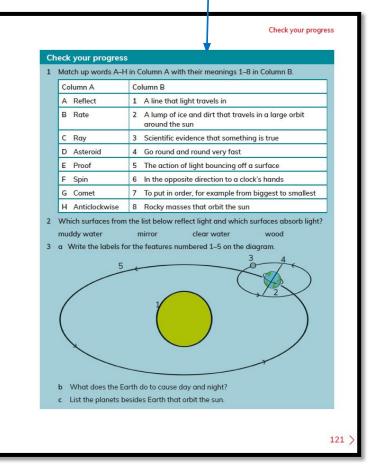
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Project feature helps with assessment for learning and promotes cross-curricular links

Check your progress feature provides exam-style questions that can be used as an end of unit test







Activities and 'Think like a scientist' features help students use their scientific enquiry skills

, 0==

Opportunities for students to self assess their learning help them develop reflection skills

Building Brighter Futures **Together** 





# Workbook



Focus exercises
build and
consolidate
learners'
foundation skills
within a topic.
More scaffolding
may be provided.

1.4 Cells, tissues and organs

### > 1.4 Cells, tissues and organs

Exercise 1.4A Identifying cells, tissues, organs and organ systems

### Focus

This exercise will help you to remember the meanings of the words 'cell', 'tissue', 'organ' and 'organ system'.

Draw a line from each word to the correct diagram.

Words	Diagrams
cell	
tissue	
organ	
organ system	

1 Cells

### Exercise 1.4B Human organ systems

### Practice

If you studied Cambridge Science before Stage 7, you will have learnt about some of the organ systems in the human body. This will help you to complete the table. If you cannot fill in the third column from memory, look up the organ systems on the internet or in the library.

The table below is about four organ systems in the human body. These are:

respiratory system nervous system circulatory system digestive system

Complete the table by:

- · writing the name of the organ system in the second column
- · writing at least two organs in the third column.

Function	Organ system	Some organs in the system
transporting substances around the body		
breaking down food and absorbing it into the blood		
taking oxygen into the body and getting rid of carbon dioxide		
helping different parts of the body to communicate with one another		

Practice exercises provide more opportunities for practice, pushing skills further.





# Workbook



Challenge exercises stretch and challenge learners even further. Less scaffolding may be required here. In particular, these exercises can target higher order thinking skills and longer writing challenges

1.4 Cells, tissues and organs

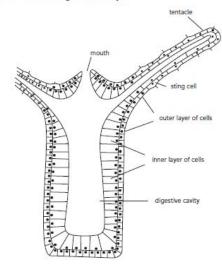
### Exercise 1.4C Sting cells in Hydra

### Challenge

In this challenging task, you will practise finding relevant information in text and diagrams. You will then apply this information, and your knowledge of cells, tissues and organs, to answer questions.

Hydra is a tiny animal that lives in freshwater ponds. It has tentacles that it uses to catch even smaller animals, which it pushes into its mouth. The mouth opens into a cavity where digestion takes place.

The body of *Hydra* is made up of two layers of cells. The diagram shows what *Hydra* would look like if you cut one in two, from top to bottom, and looked at it through a microscope.



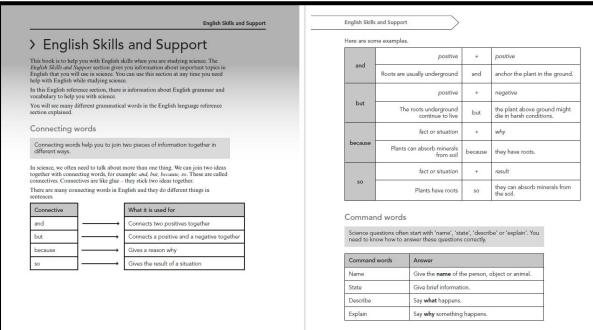
1 Cells Hydra has some specialised cells, called sting cells, to help it to catch its food. These cells contain tiny coiled threads. When a prey animal touches the trigger on the sting cell, the thread shoots out and wraps around the prey. Some of these threads may have poisonous chemicals on them, which kill the prey. The diagram shows a sting cell before and after after firing it has been triggered. cell membrane 1 For each of these parts of Hydra, decide whether it is a cell, a tissue a inner layer of cells b outer layer of cells 2 In humans, there are several different organs that make up the digestive system. Does Hydra have a digestive system? Explain your answer.

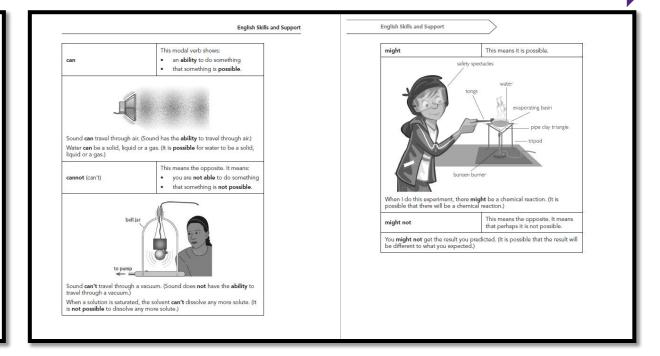
Brighter Thinking

Better Learning



# **English Language Skills Workbook**





English skills and support: background and explanation of English themes

- Overview of theme
- Relevance of theme to study in science





# **English Language Skills Workbook**



### Command words

Science questions often start with *name*, *explain* or *describe*. You need to know how to answer questions of this type correctly.

Command words	Answer		
Name	Give the <b>name</b> of the person, object or animal.		
Explain	Say why something happens.		
Describe	Say what happens.		

For example:

Question: Name the planet.

Answer: Saturn

Question: Describe how particles are arranged in a

solid

Answer: In solids the particles are arranged in a fixed pattern. The particles are held

together strongly and are tightly packed together. This is why solids have a fixed

shape

Question: Explain why liquids cannot change volume.

Answer: Matter can only change volume if the particles in it can spread out or move closer together. In a liquid, the particles are very close together and cannot be squashed. The particles touch each other but they can move past each other.

### Active and passive

You will see sentences using **active verbs** and **passive verbs** in science. Sometimes you need to use passive verbs, but active sentences are easier to understand.

Command words in the English support section are often referred to throughout the book







# **English Language Skills Workbook**





# 5 Materials and their structure

> 5.1 The structure of the atom

### Exercise 1 Connecting words

In this exercise, you use suitable connecting words to complete descriptions of the structure of an atom.

Look at  $Connecting\ words$  in the English Skills and Support section for information about connecting words.

Choose the best words to complete the sentences.

	and	because	but	but not
a	We cannot see atoms		. they ar	e so small.
Ь	The nucleus of an atom	contains neu	trons	electrons.
c	A proton	a neutron hav	e the san	ne mass.
d	Electrons, neutrons		protons	are subatomic particles.
e	Electrons have a negative	e charge		protons have a positive charge.

### Exercise 2 Answering questions

It is important to do what the command word in a question asks you to do. In this exercise, you practise responding to three different command words.

a	Name the negatively-charged particles in an atom.
Ь	Describe the three types of subatomic particle in an atom.
20	Production of the form to the control of the contro
C	Explain why an atom has no overall charge.
>	5.2 Purity
_	
E	xercise 1 Singular and plural verbs
Т	his exercise is about choosing the correct form of a verb to complete a entence about purity.

The English language support section can be used to support learners with working through questions in each unit in a language context







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- Introduction to key approaches to learning and teaching
- Overview of components in the series
- Overview of the curriculum framework



- Curriculum framework correlation chart
- Lesson plan template
- Scheme of work





1 RESPIRATION

# >1 Respiration

### Unit plan

Topic	Learning hours	Learning content	Resources
1.1 The human respiratory system	2	Structure of the respiratory system	Learner's Book: Questions 1–2 Think like a scientist: Looking at lungs Activity 1.1.1: What does the larynx do? Workbook: Exercise 1.1 Structure and function in the respiratory system Other components: Worksheet 1.1 Journey into the lungs
1.2 Gas exchange	2	Structure of air sacs; movement of oxygen and carbon dioxide between air sacs and blood; comparing the composition of inspired and expired air	Learner's Book: Activity 1.2.1: Gases in an out Think like a scientist: Why are air sacs so small?, including questions 1-3 Think like a scientist: Comparing the carbon dioxide content of inspired air and expired air, including questions 4-8 Workbook: Exercise 1.2 Lung surface area and body mass
1.3 Breathing	2	How air is moved into and out of the lungs	Think like a scientist: Measuring the volume of air yo can push out of your lungs, including Questions 1–2  Think like a scientist: Using a model to represent breathing movements, including Questions 3–6  Learner's Book: Questions 1–2  Workbook: Exercise 1.3A Measuring lung volumes Exercise 1.3B Looking at data on lung volumes Exercise 1.3C Lung volume at different ages  Other components: Worksheet 1.3 Respiratory system leaflet

### CAMBRIDGE LOWER SECONDARY SCIENCE 8: TEACHER'S RESOURCE

Topic	Learning hours	Learning content	Resources
1.4 Respiration	2	How useful energy is released from glucose inside mitochondria	Learner's Book: Questions 1–3  Think like a scientist: Investigating respiration in peas, including Questions 1–6  Activity 1.4.1: Thinking about a thermogram  Activity 1.4.2: Explaining the difference between breathing and respiration  Workbook: Exercise 1.4 Respiration by yeast  Other components: Worksheets 1.4AB and CAn investigation using hydrogen carbonate indicator
1.5 Blood	2	Structure of blood and functions of its components; how blood transports oxygen and glucose for respiration	Learner's Book: Questions 1-4 Activity 1.5.1: Making a picture of blood Workbook: Exercise 1.5A The components of blood Exercise 1.5B Functions of blood components Exercise 1.5C Rats at altitude Other components: Worksheets 1.5A, B and C Adapting to high altitude
Topic	Check your progress	Project for SiC	Language development worksheets
End of unit	Questions 1.1–1.4	Helping white blood cells to protect us from pathogens	1.1 Completing sentences about respiration 1.2 Explaining the meanings of words

### **BACKGROUND KNOWLEDGE**

Learners will know that respiration is one of the characteristics of living organisms. Some may also know that it involves the release of energy from glucose. They learnt about the structure of cells in Stage 7, and so should be aware of mitochondria.

Learners who followed the Cambridge programme at Stage 6 will have learnt the basic structure of the human respiratory system, and they should know that oxygen moves from air into the blood in the lungs. However, they are unlikely to know about air sacs, or about the movement of carbon dioxide from the blood to the air inside the lungs.

At Stage 5, they will have used the particle model to describe solids, liquids and gases, which will help them to understand how particles of oxygen and carbon dioxide can move between air sacs and the blood. They are unlikely to know about

diffusion, which is covered later in this book in Topic 3.7. Particles on the move.

The movement of air into and out of the lungs by breathing movements is a difficult topic at this level, and needs to be approached with care, giving learners time to absorb the various concepts involved. The relationship between pressure and volume will be covered in more detail in Topic 3.6, Pressure in liquids and gases.

At Stage 6, learners will have dealt with the human circulatory system, including its function in transporting oxygen. Note that thid topic covers only the structure and functions of blood; there is no need to consider the heart or blood vessels in any detail. Learners will have learnt about the structure and function of red blood cells at Stage 7, Topic 1.3. Background
subject content
for teachers to
familiarise
themselves with
the scientific
content



Topics that appear in each unit along with suggested number of teaching hours, relevant components that are appropriate



1 RESPIRATION

Teaching skills focus is aimed at teachers wanting to develop their skills and challenge themselves.

### TEACHING SKILLS FOCUS

### Organising practical work

Hands-on practical activities are an extremely important component of any modern science course. Learners experience for themselves how a variety of scientific apparatus and procedures are used. For many learners, doing an experiment themselves makes it much easier for them to understand the topic they are studying.

Thinking carefully about how you organise practical work with your class can make the experience for both you and your class much more enjoyable and successful. Here are some ideas you might like to consider.

- Before attempting to do any practical work, it is essential that learners understand the rules for behaviour in a laboratory. Schools should have their own set of rules, which are the same in every laboratory, and display them prominently on the wall. They must be fully enforced by every science teacher.
- You may like to have a supply of safety glasses and laboratory coats for learners to use when they are doing practical work. Putting on a lab coat can help them to feel responsible as they work.
- It is very unlikely that you will have an emergency, but you should have in place a procedure with which you and the learners are familiar. You should be able to tell learners to stop what they are doing immediately, and know that they will respond appropriately. This may require practice. It is important, however, not to scare learners and make them nervous of doing practical work. Laboratories can often be among the safest places in the school, because learners know how to behave sensibly there.
- Some basic apparatus (such as test tubes, retort stands) can be stored so that learners can find and collect if for themselves when asked to do so. Label each cupboard with the name of the apparatus that is kept inside; you can include a drawing or photograph of the apparatus on the cupboard door as well, to help learners who are not sure of the names.
- It is a good idea to keep the apparatus on trays inside the cupboards. You can then take

a tray of, for example, small beakers out of the cupboard when needed and place it on the bench, to make it easier for learners to collect one. Make sure that you place the trays at different places around the room, to avoid learners all standing in the same place as they collect their apparatus.

- When working in groups, one person can take responsibility for collecting the apparatus, to avoid everyone crowding around at the same time. If there is a lot to collect, then arrange for one person from each group to collect some of it, and another to collect the rest. You can also ask one group at a time to collect their apparatus, rather than everyone at once. Make sure that different groups do this in different sequences each time.
- If you have a large class, or a class where learners are unused to being able to move around in the room, or are unfamiliar with laboratory rules, problems may arise if they are asked to collect their own materials. Instead, you can take a tray of the required apparatus to each group or each bench. Later, as learners get more used to working in a laboratory, you can move towards expecting them to collect their own apparatus.

As a challenge, in this unit you could try the Think like a Scientist tasks in Topic 1.2, Think like a scientist: Why are air sacs so small? and Think like a scientist: Comparing the carbon dioxide content of inspired air and expired air. Settle the groups at their places, then take the prepared apparatus in trays to each group. Then, in Topic 1.4, Think like a scientist: Investigating respiration in peas, set out the apparatus at the front of the laboratory, and ask one person from each group to come and collect it.

Plan how you will clear up when the practical session is over. Will learners do their own washing up, or will you or a laboratory technician do this? Where will learners place dirty or washed apparatus? Have a method in place to trap any solids that might be thrown away, to stop them going down the sink – you can tie a sieve (the type that you use in a kitchen) to each tap, for convenience.

CAMBRIDGE LOWER SECONDARY SCIENCE 8: TEACHER'S RESOURCE

### CROSS-CURRICULAR LINK

English language: Learners will use English language skills to construct their story for Worksheet 1.1.

### Topic 1.1: The human respiratory system

# LEARNING OBJECTIVES Curriculum reference Learning intentions Success criteria 8Bs.03 Describe how the structure of the human respiratory system is the human respiratory system.

related to its function (in terms of lung structure).

8TWSc.07 Collect and record

• Use a range

 Use a range of senses to observe the structure of lungs. [LB]  Name the parts of the respiratory system on a diagram.

 List, in order, the parts of the respiratory system that air passes through.

### LANGUAGE SUPPORT

appropriate form.

sufficient observations in an

Helping learners to learn the names of the parts of the respiratory system and to outline their functions; encouraging use of these names and giving confidence in pronouncing and using these words.

Learners will use the following words:

respiration: a chemical reaction that takes place in all living cells, in which energy is released from glucose

aerobic respiration: a form of respiration in which oxygen is combined with glucose; it takes place inside mitochondria

respiratory system: the system involved with providing oxygen to the blood and removing carbon dioxide, so that respiration can take place in cells

trachea: a tube leading from the back of the throat, through which air travels into the lungs; it has C-shaped rings of cartilage in it to support it windpipe: another name for the trachea cartilage: a tough but bendy material that provides support to the trachea

bronchus: one of two tubes that convey air from the trachea into the lungs bronchiole: one of many small tubes that carry air

bronchiole: one of many small tubes that carry a through the lungs, from the bronchi

air sac: a tiny blind-ending sac in the lungs, in which gas exchange takes place between the air and the blood; also known as an alveolus larynx: the organ at the top of the trachea that contains the vocal cords

voicebox: another name for the larvnx

vecal cords: bands of muscle that stretch across inside the larynx, which we vibrate to make sounds Cross-curricular links point out where teachers can make links with other subjects

Learning
objectives are
based on
curriculum
references,
learning
intentions and
success criteria

Language support feature includes definitions for quick reference for teachers, advice for teachers on challenges that students may face with language





Common misconceptions feature highlights what learners might misinterpret and how to address them

Starter ideas to grab attention and generate interest in a particular topic

1 RESPIRATION

### Common misconceptions

Misconception	How to elicit	How to overcome
Learners may think that the lungs are where respiration takes place; it is very common for there to be confusion between gas exchange and respiration.	Ask learners to do the Getting started activity.  You can ask questions as you demonstrate the structure of sheep or goat lungs.	Constant reinforcement is likely to be required, to emphasise the difference between gas exchange and respiration and also (later) breathing.

### Starter ideas

Getting started (10 minutes, including sharing ideas)

Description: Ask learners to work with a partner to decide which statements are correct. There is no need to write down answers. Then ask some of the pairs to give their suggested answers, orally. Use their ideas to discover any wrong preconceptions about respiration, which you can address later in the lesson. Any wrong decisions about which statement of a pair is correct, or even slight uncertainty about this, will reveal misconceptions.

### 2 Lungs (5-10 minutes)

Resources: Lungs from a sheep or a goat, to be used later in the demonstration, Think like a scientist: Looking at lungs

Description: Before learners enter the room, place the lungs on dissecting board or in a large container, and cover.

Bring learners to the front of the class. Ask them to guess what is under the cover. They can ask questions, but you can only answer 'yes' or 'no'. You can give clues if they do not get close.

Uncover the lungs. Ask learners what they think they are, and what they do. There may be incorrect ideas about respiration happening only in the lungs. You could now go straight into the Think like a scientist demonstration, or put the lungs on one side and start the main lesson using the diagram of the respiratory system in the Learner's Book.

### Main teaching ideas

 The parts of the human respiratory system (20–25 minutes)

Learning Intention: To be able to identify and name the different parts of the human respiratory system, and to outline their functions Resources: Learner's Book Topic 1.1, diagrams of positions of lungs in the body and of the human respiratory system

If possible, show a large copy of the second diagram on the board or screen.

If available, a model of the human body with removable organs.

Description: Use the diagrams, models and video clips to talk about the structure of the respiratory system. Say the names of each part carefully, repeating them often. Use questioning to involve learners, and encourage them to say the names of the parts.

You could provide learners with an unlabelled version of the diagram, for them to stick into their notebooks and label.

If you have Digital Classroom, learners can drag and drop labels onto the diagram and hear the words spoken.

Ask learners to answer questions 1 and 2, either orally or by writing the answers in their notebooks.

- > Differentiation ideas: Some learners may need help to label the diagram, and to answer the questions. Learners who need a challenge could draw the diagram in their notebook, rather than being provided with an unlabelled version to stick in.
- > Assessment ideas: Check that learners are confident in pronouncing the names of the parts of the respiratory system. Check answers to Questions 1 and 2.

### 2 Think like a scientist: Looking at lungs (15–20 minutes)

Learning intention: To consolidate understanding of the structure of the respiratory system CAMBRIDGE LOWER SECONDARY SCIENCE 8: TEACHER'S RESOURCE

Resources: A fresh set of lungs obtained from a butcher – these are often readily available; sheep or goat lungs are ideal (if you have to obtain these the day before the lesson, make sure that they are kept in a fridge so that learners are not put off by strong smells); a dissecting board or large bowl in which to place the lungs; access to warm water, soap and towels, for washing hands; clipboards for learners to make notes or drawings, if appropriate

Description: Bring learners to the front. If any learners say that they do not want to watch, do not attempt to persuade them, but simply allow them to sit quietly at the back of the class, where they cannot see the lungs. These learners may decide to watch the demonstration once it has begun

Demonstrate the structure of the lungs and the tubes leading into them. Allow learners to touch the lungs—they should feel how soft and spongy they are. They can also feel the cartilage rings in the trachea.

Talk through the questions and encourage learners to suggest their answers.

When the demonstration has finished, make sure that everyone washes their hands thoroughly.

They can then return to their places and write the answers to the questions.

If no set of lungs is available, a series of images showing the different parts of the lung, or a video clip showing the different structures of the lung or a video clip of a lung dissection can be used.

- > Differentiation ideas: This task works well with learners of all abilities. Differentiation is by outcome, where there will be a range of answers to the questions.
- > Assessment Ideas: Listen to any questions as you demonstrate the lungs. Listen to answers from learners, and mark their written answers to the questions.

### 3 What does the larynx do? (5–10 minutes)

Learning intention: To practise observing carefully through touch and hearing

What the idea is good for: Helping learners to appreciate that observations can be made with all of our senses, not just sight.

Linking what they have learnt about the respiratory system to their own body. Description: Ask each learner to follow the instructions in the Learner's Book for this activity. They can do this individually, while seated at their desks.

> Differentiation ideas: Some learners may need help in finding their larynx and in being able to feel differences in its position when they make different sounds. Some learners may be able to relate the higher frequency of vibration to the higher piech of a sound.

### Plenary ideas

### Naming the parts of the respiratory system (5 minutes)

Description: Draw or project an unlabelled image of the respiratory system on the board. Ask a learner to name a part of the system. Ask another learner to come and label this part on the board. Repeat with each part.

> Assessment ideas: Use answers to check learners' ability to recognise and name the parts of the respiratory system.

Check that learners can pronounce and spell the names correctly.

### 2 Mastermind (5 minutes)

Resources: A card for each learner, with a tick ( $\checkmark$ ) on one side and a cross ( $\times$ ) on the other side

Description: Choose a learner (or ask for a volunteer) to be 'Mastermind'.

Ask this learner a question about the respiratory system, based on the work done in this lesson.

The Mastermind gives an answer – they can choose to give a wrong answer if they wish to.

The other members of the class hold up their cards, with the tick or cross showing, to show whether the answer is correct or incorrect.

You can then interrogate the rest of the class to find the correct answer if necessary, or to find out why a learner has identified a correct answer as a wrong one.

Repeat with more questions to the same

> Assessment ideas: Use responses of the class to identify any misunderstandings.

Plenary ideas include opportunities for consolidation and self/peer

assessment

against

success criteria

Brighter Thinking

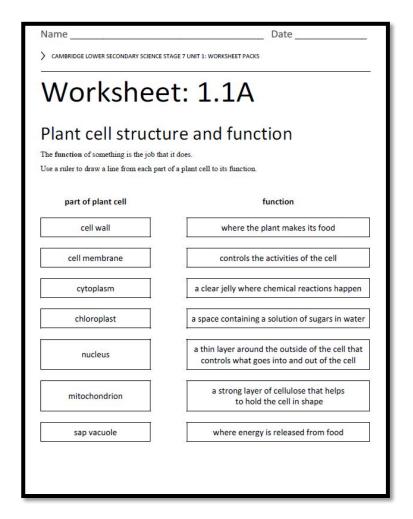
Better Learning

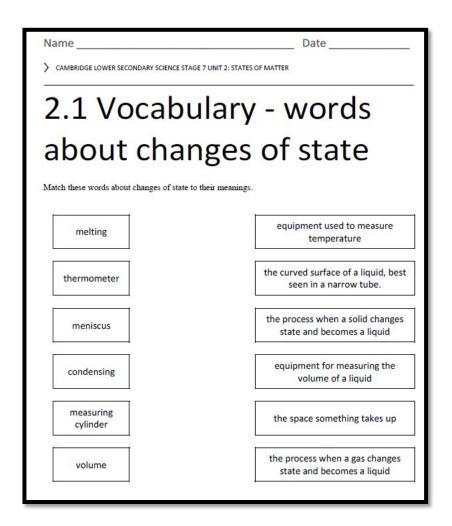
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# **Teacher's Resource Worksheets**







- Worksheet and language worksheet packs to accompany the Teacher's Resource
- End of unit, diagnostic, mid-point and end of year tests also provided Building Brighter Futures Together









# **Beyond the textbook**

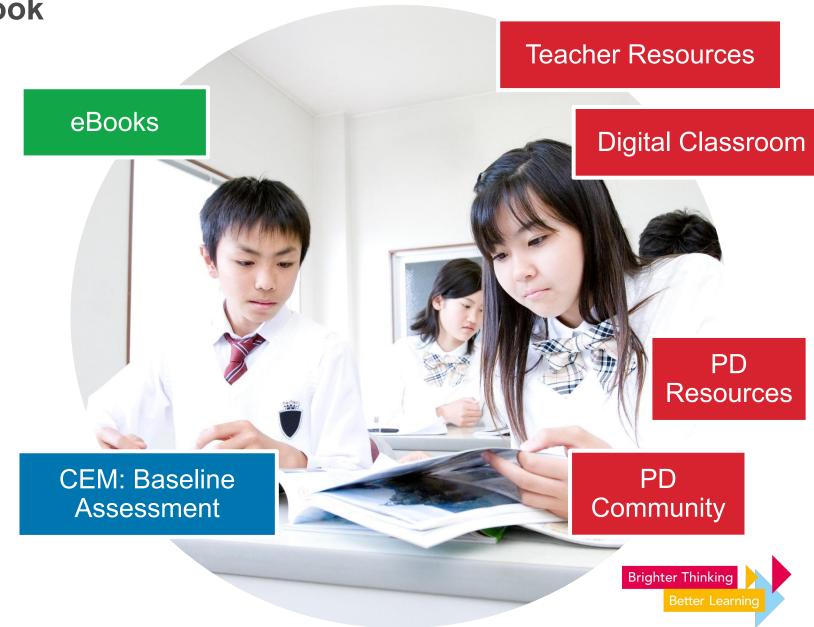




# **Beyond the textbook**

Strategy

Develop global and customised school proposition that goes 'beyond the textbook', surrounding the curriculum product with professional development, expert and community created teacher resources, and assessment data





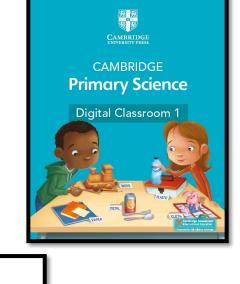
# Going beyond the textbook

# Digital



- Cambridge GO resources: digital editions of LB, WB, ELSWB and TRs for all stages
- Digital Classroom for stages 1-6: practical demonstrations, animations and songs





Drag the words to label the picture.

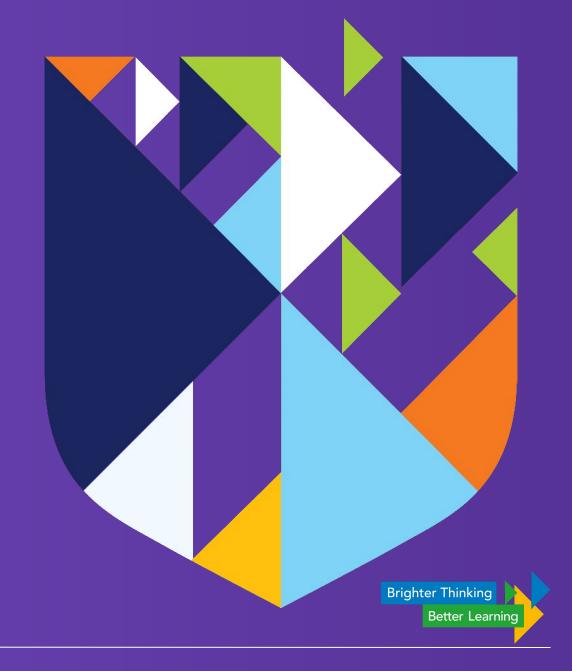




# Cambridge Primary and Lower Secondary Mathematics





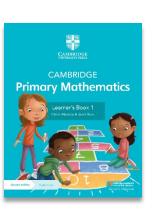




# **Series components**

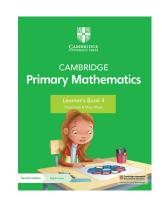


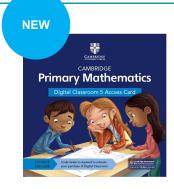












Learner's book with digital access stage 1 - 9 Core learner activities

Digital learner's book stage 1-9

Digital only version of the learner's book

Workbook with digital access stage 1-9

> Additional, differentiated practice opportunities

Teacher's resource with digital access stage 1-9

Everything teachers need to plan and run the course

Digital Classroom stage 1-6

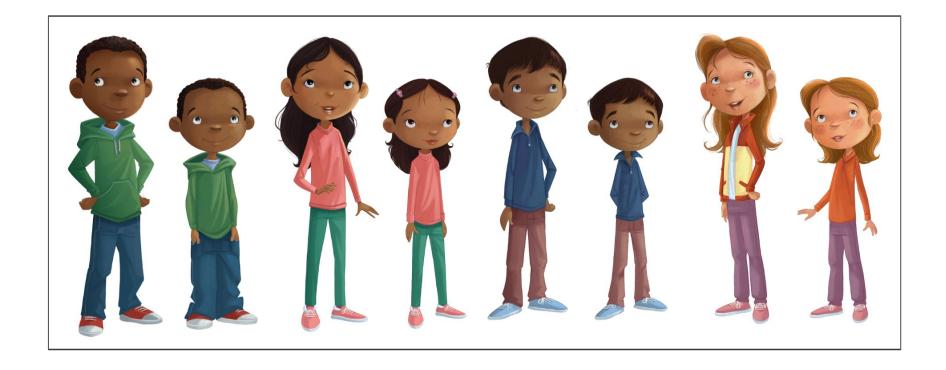
Onscreen version of the learner's book and workbook with interactive activities and video





# **New characters**









# Key curriculum changes for first teach in 2021

Cambridge Primary & Lower Secondary Mathematics



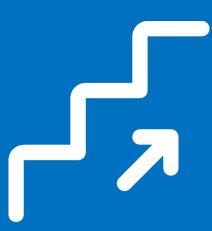
Thinking and

Working

**Mathematically** 







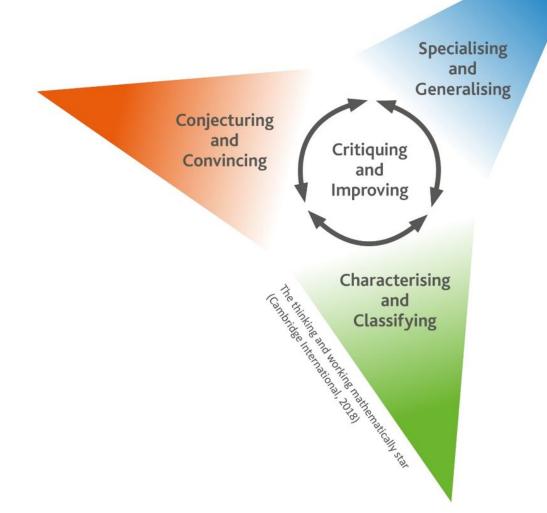
Clear progression through stages





# **Thinking and Working Mathematically**



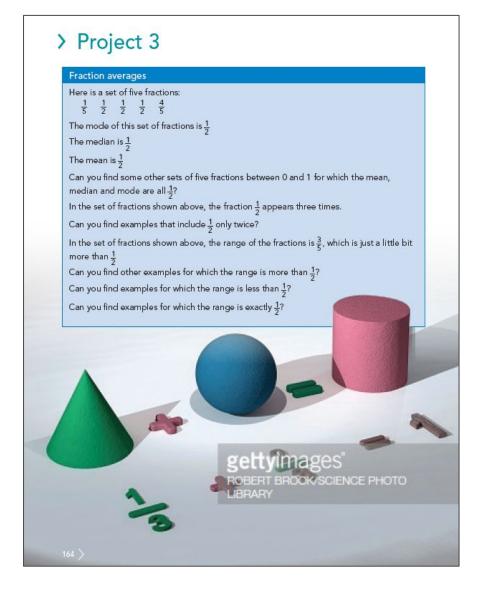






# **NRICH** projects





Stage 7 Project example, and associated teacher guidance

### PROJECT GUIDANCE: FRACTION AVERAGES

### Why do this problem?

This problem encourages learners to be playful with fractions while consolicating their understanding of averages. This activity helps develop the skill of classifying by inviting learners to find groups of examples that satisfy the given criteria.

### ossible approach

Write this set of fractions on the board, and ask learners to find the mean, median and mode:

 $\frac{1}{5}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{4}{5}$ 

If necessary, deal with any misconceptions that arise.

Challenge learners to find some other sets of five fractions between 0 and 1 for which mean, median and mode are all  $\frac{1}{2}$ , including examples in which  $\frac{1}{2}$  appears only twice.

Once learners have found some examples, invite them to work out the range for each set of

fractions. Can they find examples for which the range is more than, less than, and exactly  $\frac{1}{2}$ ?

Finish off by discussing learners' insights and discoveries.

Key question:

If the mean is  $\frac{1}{2}$ , what can you say about the total of the five fractions?

If you have a set of five fractions that satisfies the criteria, how could you tweak it to give a new set?

### Possible support

Learners could start by finding sets of five whole numbers whose mean, median and mode are the same.

### Possible extension

Challenge learners to come up with an explanation of why there are infinitely many sets of five fractions that satisfy the criteria.





# **Mental mathematics skills**





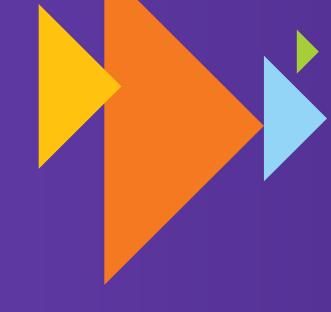








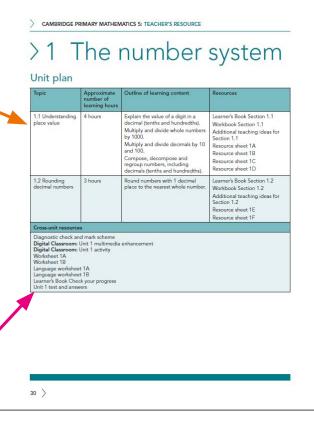
# Resource walkthrough





Easy-to-view breakdown of sections, estimated timings, content and resources

Clear list of additional resources that can be downloaded from digital access



Thinking and Working Mathematically questions in Unit 1

Questions	TWM characteristics covered	
Learner's Book	*	
Exercise 1.1 question 8	TWM.07	
Exercise 1.1 question 9	TWM.06	
Exercise 1.2 question 5	TWM.04	
Exercise 1.2 question 6	TWM.01	
Check your progress question 8	TWM.01	
Workbook		
Exercise 1.1 question 11	TWM.01	
Exercise 1.1 question 13	TWM.01	
Exercise 1.1 question 17	TWM.07	
Exercise 1.2 question 2	TWM.02	
Exercise 1.2 question 4	TWM.02	
Exercise 1.2 question 10	TWM.02	
Exercise 1.2 question 11	TWM.06	

We are surrounded by numbers in our everyday life. Some of these are whole numbers and some are decimals. Having a display of pictures in the classroom can help learners to see how numbers affect their lives.



BACKGROUND KNOWLEDGE



1 THE NUMBER SYSTEM

In earlier stages, learners used place value chart to help them understand place value. In Stage 4 learners worked with whole numbers, reading and writing them correctly. Learners understood and explained how the value of each digit was determined by its position in a number. can be used to encourage specific Thinking and Working Mathematically skills

Background knowledge on skills students should already have encountered and second section on teaching skills

Brighter Thinking

Better Learning



Learning plan connects the learning intentions of the unit to the curriculum framework references

Language support explains the critical vocabulary needed for the unit

CAMBRIDGE PRIMARY MATHEMATICS 5: TEACHER'S RESOURCE 1.1 Understanding place value LEARNING PLAN Learning intentions · Understand and explain the . Learners explain the value of a value of each digit in decimals digit in a decimal (tenths and 5Np.02 Use knowledge of place value to Learners multiply and divide 10, 100 and 1000. 5Np.03 Use knowledge of place value to Learners multiply and divide · Compose, decompose and · Learners compose, decompose regroup numbers including decimals (tenths and hundredths) The vocabulary related to decimals will be new for learners, so practise using it wherever possible. Insist that decimals are read correctly and learners understand their values, for example: 6.4 (read as six point four) means 6 ones and 6.40 (read as six point four zero) means 6 ones number 45.67 has two decimal places and 4 tenths and 0 hundredths

6.04 (read as six point zero four) means 6 ones

Sometimes there are differences in the vocabulary

Alternative

partition or write in

expanded form

used internationally. Some key words have

and 0 tenths and 4 hundredths

alternative versions, for example:

Used in this book

Compose: put together, for example, 600 + 30 + 2 Decimal: a number written in decimal notation, for

> Decimal place: the position of a digit to the right of the decimal point in a decimal number. The

Decimal point: the decimal point separates whole numbers from decimal places. You read 57.08 as 'fifty-seven point zero eight'.

Т	0	t	h
5	7	0	8

Decompose: break down a number into parts, for example 456 is 400 + 50 + 6 Hundredth: one part in one hundred equal parts; 1 THE NUMBER SYSTEM

Place value: the value of a digit determined by its position. For example, in 830 the 3 has a value of

Regroup: to change the way a number is written. For example, 456 = 400 + 50 + 6, but you can change this to 400 + 40 + 10 + 6

Tenth: one part in ten equal parts. As a decimal it is

### Common misconceptions

Misconception	How to identify	How to overcome
Learners may consider hundredths to be greater than tenths.	Through discussion and in written work.	Ensure that place value charts are used as visual prompts.
Learners may misunderstand the concept that multiplying or dividing by 10, 100 or 1000 moves the digits of a number 1, 2 or 3 places to the left or the right.	Through discussion and in written work.	Make sure learners understand that when a digit is moved to the left its value increases (ones become tens and so on) and when it is moved to the right its value decreases.
		When working with whole numbers, do not condone the use of a 'rule' involving 'add a zero' as this causes difficulties when working with decimal numbers and fractions.
		Calculators are a useful teaching resource to demonstrate patterns when multiplying and dividing by 10 and 100, as shown in the Multiplying and dividing whole numbers by 10, 100 and 1000 main teaching idea (in the Additional teaching ideas for this section).

### Starter idea

Getting started (20 minutes)

Resources: Unit 1 Getting started exercise in the

Description: Give learners 10 minutes to answer the Getting started questions in their exercise books. After 10 minutes, ask learners to swap their books with a partner and check their partner's answers as you discuss the questions as a class. After the class have marked their work, walk round and check if there are any questions that learners struggled with. You may

want to recap particular concepts as a class. Refer to the Background knowle or suggestions of how to address gaps in learners prior knowledge.

### Main teaching idea

Place value (20-30 minutes)

Learning intention: Understand and explain the value of each digit in decimals (tenths and hundredths)

Resources: Resource sheet 1B.

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Common misconceptions about specific skills, how to identify them and how to overcome them are highlighted for each unit

Quick starter ideas to begin a lesson







Teaching ideas specifically end by directing teacher to the exercise or specific questions

Detailed main lesson activity ideas are presented. There is one main lesson activity in print and two alternative or supplementary ideas that teach the same skill in a different way in the bundled

CAMBRIDGE PRIMARY MATHEMATICS 5: TEACHER'S RESOURCE Description: Show a place-value chart. Tell the learners Place numbers (up to 2 d.p.) on the grid and ask that it is like the one they used in Stage 4 but it has been learners to say the numbers. Then reverse the process say numbers (up to 2 d.p.) and ask learners to place the 1 2 3 · How do you say this number Answer: 6.51 is six point five on Ask learners to describe the grid How do you decompose this number's Answer: 100 to 900 going across. Divide by 10 each time Answer: 6 + 0.5 + 0.01 Point to 0.4 and ask-· How do you say this number · What is ten times this number Answer: zero point four four Point to 0.04 and ask "How do you say this number!

Repeat for other decimals, emphasising the language.

Show a partly labelled place value grid and ask

"What are the titles of the columns marked with a

Shade cells in the displayed chart to make numbers with 2 decimal places, for example shade 6, 0.5 and 0.01 to · Can you regroup this number in a different way? Answer:  $5 \pm 1.5 \pm 0.01$ , other answers are possible How do you say the number equivalent to 6 ones + 5 tenths + 1 hundredth? Remind learners that when they combine numbers in this way, they are composing a number Repeat for other numbers and also ask questions about specific place values What is the value of the digit 4 in the number 6.48?

. What is the value of the digit 6 in the number 4.06?

Ask learners to work in pairs on the activity in Resource

sheet 1B. Make sure they say the numbers as instructed

Answer: 4 tenths or 4

Answer: 6 hundredths or 6

Now ask learners to complete questions 1 to 4 of Exercise 1.1 in the Learner's Book. of them are the same, leaving the fourth as the odd Differentiation ideas: Support less confident learners by pairing them with a more confident learner who is willing to help them. Ask more confident learners to make sets of three cards offering different ways of

> 5 + 0.3 + 0.09 4+13+0.09

### Plenary idea

Target board (10 minutes) Resources: Copy of target board

Description: Display the target board and ask questions related to it, for example

lecomposing and regrouping decimals, for example

· Which number is the result of dividing 409 by 100?

Answer: 4.09

. What is 18 divided by 10

3.06	2.13	5	3.45	5.18
3.34	3.24	3.3	2.5	4
3	3.1	1.69	3.29	4.79
4.09	3.5	4.9	2	1.8

Insist that learners say the decimals correctly (e.g. 3.06 is 'three point zero six') Guidance on selected Thinking and

### Working Mathematically questions Learner's Book Exercise 1.1, question 9

Learners are given four statements, each with a missing number, and have to work out which is the odd one out. You may need to remind learners that they need to calculate and then compare the missing numbers in order to identify the odd one out.

Learners will show they are classifying (TWM.06) when they calculate the missing numbers and notice that three

1 THE NUMBER SYSTEM

Work on the history of measurement will include reference to the metric system. The metric system is an internationally recognised decimalised system of measurement, for example lengths can be measured in millimetres (mm) and centimetres (cm). There are 10 mm in a cm so

Learners will use metric measurements in science, for example when working on evaporation they may measure air temperatures n Celsius and the depth of water in a pond in

### Homework ideas

- and divide by 10, 100 and 1000. They can illustrate it with examples, including drawings, pictures or photographs. For example
- . 1 metre is 100 times as long as 1 centimetre
- · 1 cent is 100 times smaller than 1 dollar.
- target board used in the Target board plenary idea.

Clear homework ideas

Guidance on one Thinking and Working Mathematically question in each exercise is given

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Brighter Thinking **Better Learning** 

digital access



# **Teacher's Resource additional content**

# al content





✓ LB and WB answers

Digital access

- End of unit tests (from Stage 3 upwards)
- ✓ Diagnostic test for formative assessment use at the start of academic year (all stages)
- Mid-year and end-of-year tests (from Stage 3 upwards)
- English as a second language support worksheets
- Additional differentiated worksheets
- Activity resource sheets (where required by teaching idea)



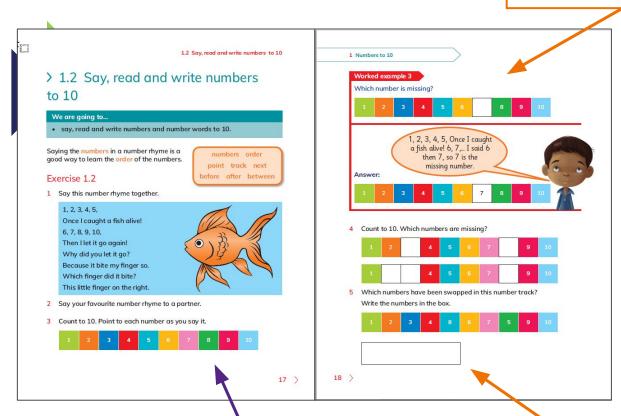


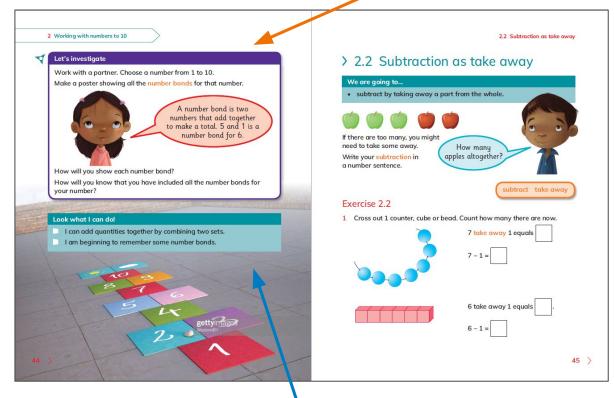
# Learner's Book Stage 1

Simple worked examples



Group or pair activity, with TWM icon – teacher can facilitate TWM characteristics





Instruction on the page, but guided by teacher

Colourful pages that can be used to write-in



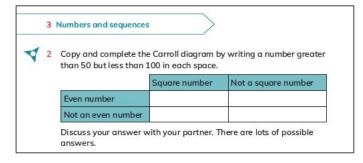
Self-assessment checklist





# Thinking and Working Mathematically

Integrated into exercises and projects
Guidance in TR
Developing a series of classroom posters to help
prompt students



## Question from Stage 4 LB



All TWM questions marked with star icon

### Guidance on selected Thinking and Working Mathematically questions

### Learner's Book Exercise 3.2, question 2

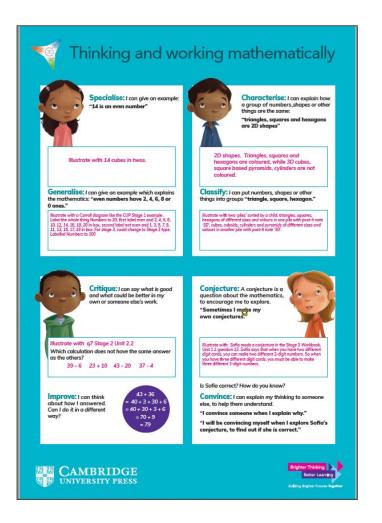
In this question, learners are presented with a Carroll diagram. They need to find four numbers to fit into the four cells:

- · a square number that is even
- · a square number that is not even (odd)
- an even number that is not square
- a number that is not even (odd) that is not square.

All the numbers must be greater than 50 and less than 100, so using 100 as an example of a square number that is even is not acceptable. Learners will show they are specialising (TWM.01) when they choose an example and check to see that it meets the criteria of the cell that it is placed in.

Learners will show they are classifying (TWM.06) when they place their chosen numbers in the correct position on the grid according to their properties.

Teacher guidance in Stage 4 TR





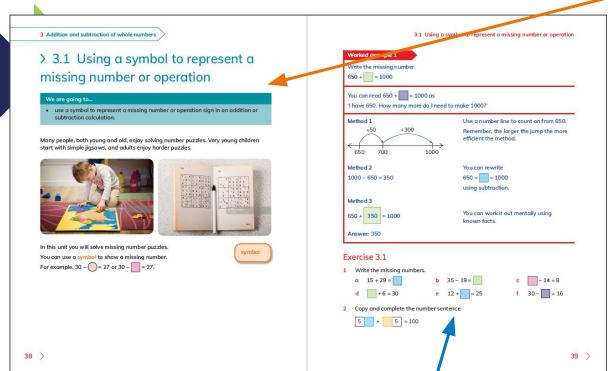


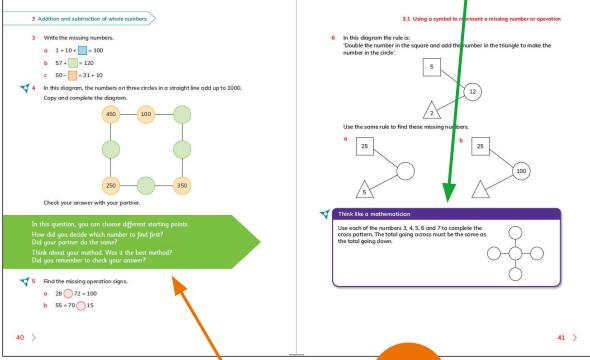
# Learner's Book Stage 4

# Identification of section aims for learner



Investigative activities to encourage joining up of ideas





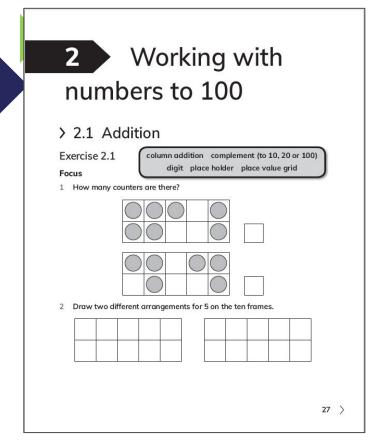
Increasing number of practice questions

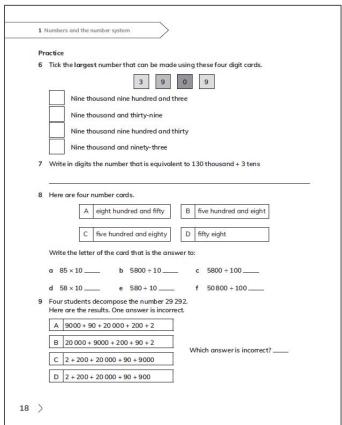
Reflection questions to encourage learners to think about how they approached their learning

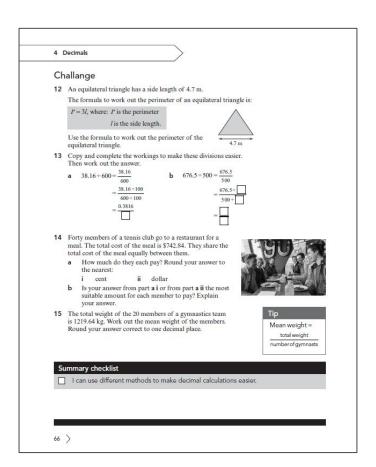




## Workbooks







Stage 1 WB – FOCUS section

Stage 4 WB – PRACTICE section

Stage 7 WB – CHALLENGE section

Brighter Thinking

Better Learning

# CAMBRIDGE UNIVERSITY PRESS

## **CAIE** Review

"The demand of using TWM is higher than in some syllabuses at this age but learners are given guidance & much more in the TR."

"... an excellent book for learners & the rest of the series adds even more support. There are good links with prior work, introduction of new content & questions that increase the difficulty level throughout each unit. Questions are in context & ask learners to explain, critique & improve their work providing a deeper understanding of maths. If I was teaching this course, I would want my school to buy all the Stage 7 material." Stage 7 review

"... a good model to the pedagogy underpinning much good teaching and learning. The work book supports teachers to deliver the curriculum and has avoided repetitive examples, refraining from offering a single method for solving problems. Teachers who are unfamiliar with this teaching style but who are teaching this curriculum will be guided to use some 'good practice'." Stage 4 review





# Cambridge Primary and Lower Secondary English





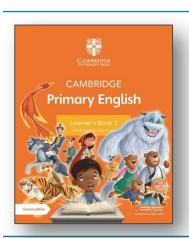


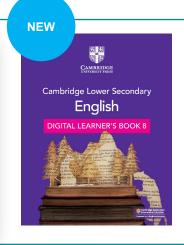


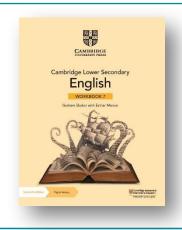
# **Series components**

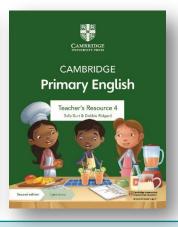


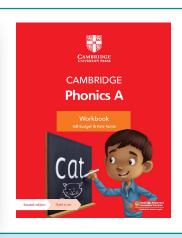












Learner's book with digital access stage 1 - 9

> Core learner activities

Digital learner's book stage 1-9

Digital only version of the learner's book

Workbook with digital access stage 1-9

> Additional, differentiated practice opportunities

Teacher's resource with digital access stage 1-9

Everything teachers need to plan and run the course

Phonics workbook

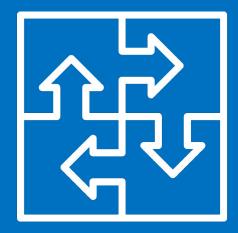
Onscreen version of the learner's book and workbook with interactive activities and video



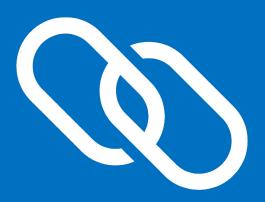


# Key curriculum changes for first teach in 2021

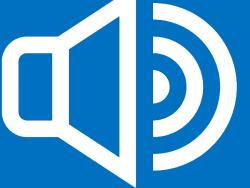
Cambridge Primary & Lower Secondary English



More integration of the four skills



**Paired reading** and writing strands



**New speaking** and listening sub-strands

Clear progression through LOs







### Overview of the curriculum framework

Cambridge Primary & Lower Secondary English



Learners become confident communicators

Learners see themselves as readers, engaging with a range of texts for information and pleasure

Learners develop speaking and listening skills



Learners see themselves as writers, able to write for different audiences and purposes

Learners develop a broad vocabulary and understanding of grammar

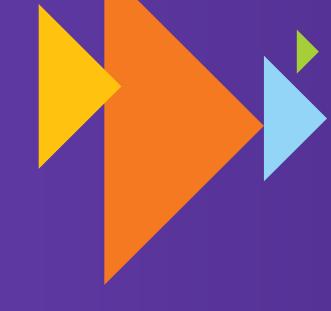
Learners develop evaluation skills







# Resources walkthrough





### > Contents

The contents page makes our pedagogical approach and curriculum coverage clear

Page	Unit	Text type	Reading
8	1 Adventure	Contemporary fiction (adventure); non- fiction (travel writing); thematic poetry; novel (spy story)	'Beware Low-Flying Girls'; Around India in 80 Trains; 'Hard is the Journey'; Silverfin Tips: Using context to understand words; recognising the effect of sentence types
32	2 'Hey, You Down There'	Short story	"Hey, You Down There" Tips: Story openings; scanning; story endings
57	3 Film and fame	Contemporary fiction; non-fiction (informative article); non-fiction (film review)	Film Boy; 'Hrithik Roshan says he practices every day to overcome stammering' in the Hindustan Times, 'The Incredibles film review; 'Thai cave rescue boys meet hero' in the Guardian Tips: Selecting quotations; fact-checking; working out words from context and word families
82	4 Small but perfect	Flash fiction; haiku poetry; imagist poetry; non-fiction (informative article); non-fiction (explanatory text); non-fiction (magazine article and interview)	'One in Twenty-Three'; haiku poems; imagist poems; 'The tiny world of Willard Wigan' in the Telegraph; explanation of shabits; 'Micro-artist Willard Wigan reveals his tiny world' in WhatsonTV Tips: Selecting precise quotations; checking syllables in haiku; scanning and close reading
108	5 Unusual education	Non-fiction (descriptive accounts); non- fiction (blogs); non-fiction (discussion article and account); contemporary fiction; contemporary drama	Two accounts of different schools; blogs about school uniform; homeschooling article and account; Wonder, The Last Class Tips: Comparing two texts; reading ahead
136	6 Life stories	Thematic poetry; non-fiction to narrate (autobiographies); non-fiction to narrate (diary); persuasive speech	'Lullaby'; 'The Song of the Old Mother'; biography of Malala Yousafzai, As I Walked Out One Midsummer Moming; Letter to Daniet, Captain Robert Scott's diary; speech by Nelson Mandela Tips: Voice and language; tracking an argument
163	7 'The Travel Agency'	Short story (fantasy)	'The Travel Agency' Tips: Understanding genre conventions; labelling sentences
189	8 in the city	Contemporary fiction; classic fiction; thematic poetry; non-fiction (argument articles)	The White Tiger; Neverwhere; A Christmas Carot, The Sign of Four; 'City Jungle'; 'Last Night, I Saw the City Breathing'; 'Urban Threats' in National Geographic; 'What would the ultimate child- friendly city look like?' in the Guardian Tips: Understanding settings; tackling unfamiliar words; locating information
215	9 Dangers of the sea	Contemporary fiction; non-fiction (informative article); classic fiction; classic poetry	Jaws; "Why Are We Afraid of Sharks?" in National Geographic, Moby-Dick; And The Ocean Was Our Sky, "The Rime of the Ancient Mariner" Tips: Article structure; choosing text support

Writing	Speaking/Listening	Language focus	21st century skills
Summarise genre features; write a monologue; analyse a poem's meaning; write a story Tips: Using full sentences; redrafting writing	Pair discussion and prediction; present group views; recount an anecdote Tips: Interpeting tone; using voice in a monologue; using non-verbal communication; formal debating; emphasising words	Sentence types; alliteration and sibilance; powerful verbs	Creativity; collaboration
Write a spoken drama; write informally; write about theme; write a story with an unusual ending Tips: Showing character through voice; summarising themes, sequencing a story	Pair and group discussion Tips: Listening to opinions; acting as chairperson	Sentence openings; compound-complex sentences; formal/informal language	Critical thinking; communication
Write a section of a story; write an article; write a film review, speech writing Tips: Using contractions in dialogue; recreating spoken English; taking notes; tense choice	Pair discussion; individual speaking Tips: Conveying mood; listening to facts and opinions; conveying positive opinions	Direct speech; types of noun/adjective-noun combinations	Collaboration; creativity
Write flash fiction; analyse a poem; write poems; write an interview Tips: maintaining tense; sensory description; commenting on poetic method	Pair and group discussion	Time connectives; prefixes	Creativity; critical thinking
Write an account about school; write a script Tips: Speech openings; choosing levels of formality; script writing	Pair and group discussion Tips: Using research and facts; thinking critically	Connectives; colons	Social responsibility, collaboration
Justify poetry choices; write an account of family life; write a monologue; analyse a letter; analyse language; write a poem; write a speech Tips: Sequencing a monologue; focusing on effect	Pair and group discussion Tips: Using punctuation when reading aloud; judging views; timing and delivery; structure of spoken texts	Rhythm and rhyme; voice; embedded clauses	Social responsibility, creativity
Explain character; write a narrative piece; write a brochure introduction; analyse character; write a diary entry; write about theme Tips: Addressing the reader; making notes; responding to tasks	Pair and group discussion Tips: Tone and intention; preparing to perform a character; listening to advice; choosing precise words	Word choice and order; voice and excitement	Critical thinking; learning to learn
Travel article; Continue a story; write a poem about a city Tips: Summarising; planning an article; using direct language	Pair, group and individual discussion Tips: Delivering a speech; focusing on key points; making notes on opinions	Using punctuation; personification; related word forms; perspective	Learning to learn; communication
Describe a sea snake; continue a story; analyse poetic language Tips: Focusing on questions	Pair, group and individual discussion Tips: Using media; using vocal range	Choosing words and phrases; poetic language	Creativity; collaboration





Learning objectives help learners know where they are going

Getting started activities help teachers assess what learners know already

Recordings of texts available in digital editions

1 Adventure > 1.4 A hard journey In this session, you will:

look for explicit and implicit meanings in poetry explore how poets use language features for effect

learn how to write an analysis of a poem.

Getting started

Some people and some poems describe life as a journey. In pairs, discuss what life has in common with a journey. How could e be described as an adventure?

'Hard is the Journey'

Read the following poem by Li Po, an 8th century Chinese poet.

Gold vessels

Jade dishes of rare meats. costing more thousands,

I lay my chopsticks down, no more can banquet, I draw my sword and stare wildly about me:

e bars my way to cross the Yellow River. Snows from dark skies to

the T'ai-hang mountains!

So when a breeze breaks bringing fair weather, I set a cloud for sails,

At peace I drop a hook

At once I'm in a boat

but sailing sunward..

(Hard is the journey,

Hard is the journey,

So many turnings,

And now where am I?)

cross the blue oceans!

into a brooklet,

vessels: hollow containers jade: a hard

green stone banquet: a feast

brooklet: a small stream

International texts

Difficult words from the text are defined alongside

Stanza What happens The narrator describes expensive meats.

Copy and complete this table to list the events of each stanza.

The first one has been done as an example.

Poets often use different types of sound effects, such as alliteration and sibilance. These sound patterns are effective when the poem is read aloud. They are used sometimes for very specific effects.

Alliteration is when consonant sounds are repeated at the start of words (e.g. 'the rifle's rapid rattle' - the repeated 'r' sound brings to mind the stuttering sound of a gun being fired).

Sibilance is the repetition of soft consonant sounds, usually the 's' sound (e.g. 'the ship moved slowly through the sea' -th repeated 's' sound brings to mind the sound of a ship mo through water, or the sound of the wind making the ship move

- Read the poem again carefully. Identify examples of alliteration and sibilance. What effect do these language features create?
- 3 In pairs, discuss the following:

Language focus

- In stanza 2, the narrator decides to stop feasting and picks up his sword. Why do you think he does this?
- In stanza 3, the narrator is unable to cross the river. How does the narrator seem to feel about this in stanza 4?

1.4 A hard journe

Key word

stanza: a group of lines of poetry, forming a unit

alliteration:

use of the same

consonants, at

the beginning

of several close-

together words

sibilance: use

for emphasis

of repeated soft

consonant sounds

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sound, especially

Examples help less

Kev

vocabulary is

defined

confident students

Language 💭 focus boxes explain grammar and language points

Brighter Thinking

**Better Learning** 

Building Brighter Futures Together



Critical thinking and analysis

Integration of all four skills with opportunities for speaking and listening

Examples help less confident students

1 Adventure

- 4 At the end of a poem, the poet usually states their conclusion and reveals the main point of the text. Reread stanzas 5 and 6 and makes notes on:
  - a how the narrator feels in stanza 5 (why does he find the journey hard?)
  - b what happens in stanza 6 to make the narrator set sail.
- People read poems in different ways and have different responses to them. Some readers might think that 'Hard is the Journey' ends happily, because the narrator travels on. Others might think that the ending of the poem shows that the narrator's difficult journey is never-ending. In groups, discuss what you think the ending of the poem means.
- What is the overall mood of the poem is it optimistic or pessimistic? Here are two possible interpretations of the poem. Discuss them in small groups. Do you agree with either of them? Why/why not?

This is a poem about how difficult life can be. The narrator faces many problems. The poem shows how you can't control your life.

This is a poem about how humans succeed in the end. The poem shows that if you believe in yourself, then things work out well in the end.

mood: the feeling

created by the

words, sounds

poem

and images in a

22

7 Present your thoughts from Activity 6 to another group and listen to their ideas. Then debate your ideas. You should:

- · clearly explain and justify your views
- · discuss your ideas, making sure you take turns
- come to an agreement about which view is the most convincing.

#### Self-assessment

How well did you contribute to your group discussion and debate?

- Did you give a clear opinion and justify it?
- Did you listen respectfully to other people's views?
- What advice would you give to others in your group about improving their skills?
- 8 Using ideas from the table you created in Activity 1 and from your discussion and debate, write a response to the following question. Write about 200 words.

What does 'Hard is the Journey' show about attitudes to adventures? You should write about:

- · details of the journey in the poem
- what you think the writer is saying about journeys and adventures
- · the language choices made by the poet.

#### Summary checklist

- I can identify and explain explicit and implicit meanings in
- I can analyse how poets use language features for effect.
- I can write an analysis of a poem.

1.4 A hard journey

Speaking tip
When debating

ideas, listen carefully to others' opinions and their reasoning. When challenging their views, be polite and friendly. You could organise your debate in

with a teacher or student taking on the role of chairperson to keep order and make sure that everybody gets a chance to speak. Tips for all four language skills

Opportunities of for self and peer assessment throughout

Summary checklists help learners reflect on what they have achieved

Brighter Thinking

Better Learning

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End-of-unit quizzes to help teachers check their learners progress

Projects offer an alternative to pen and paper tests

Projects provide an opportunity for all learners to participate and achieve

### Check your progress

Answer the following questions to check what you have learnt in this unit.

- What are the key features of adventure stories? Give some examples of events that happen in adventure stories.
- What type of characters do you find in adventure stories? What happens to them?
- List three ways you can keep an audience interested when relating an anecdote.
- Using examples, explain what alliteration and sibilance are.
- List three ways of creating suspense in a story.
- Explain what you have learnt about planning, writing and redrafting your writing. Write a list of tips for future students about improving writing.

#### Project

In groups, you are going to design and present some ideas for a specific type of adventure story: the superhero story. Superhero stories are about characters who have extraordinary powers. They are often normal people secretly change into superheroes in order to help people in need.

sing the information in this unit as well as extra research:

- devise a new superhero
- write a brief character profile
- decide details about the world they live in is it recognisable as your own world, or is it a different type of place?
- describe a costume they might wear
- draw the bad characters that the superhero will encounter
- plan some storylines.

Present your ideas as a group. You could use pictures and artwork to explain your ideas.

#### Start by:

- noting down the names of any superhero books, comics and films you know
- discussing some initial ideas with your group
- working out who will do what in your group
- planning ways to present your work.

A more formal end-of-unit test is available to download in the Teacher's Resource

> **Projects** provide

opportunities for speaking and listening





### Workbook

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Links to the Language focus box in the Learner's Book provide extra grammar practice

	Hey, You Down There'	2.2 Down the hole
>	2.2 Down the hole	b You are jogging. A dog is chasing you.
La	nguage focus	
S	riters use a range of grammatical structures to build information in a story. metimes, they use adjectives and adverbs to add detail. Compound- mplex sentences can help organise these details. For example:	[1] subordinate clause
A th	be slackened in her hands indicating that the bucket had reached known [1], a scream of sheer terror came up from the hole [2], and [3] e rope ladder jerked violently [2].	c A man watches an old building collapse.  [2] compound sentence
H cc ar pi	ere, the compound sentence comes second, with the coordinating njunction joining the two clauses. The subordinate clause comes first d ends with a comma. The sentence is organised this way so the reader ctures the events in the order in which they happen. It shows how one tion causes another.	[3] coordinating conjunction
Fo	cus	Challenge
	Put a tick to indicate which of these sentences are compound-complex.	Using a range of simple, compound, complex and compound-complex sentences will shape your writing and make it interesting.
	I ran hurriedly into school and then made my way to the classroom, never once pausing for breath.	Write a paragraph about a family celebration. Vary your sentences to create detail and drama. Include at least one compound-complex sentence.
	b Tomorrow I am going to buy a new toothbrush and a hairbrush from the pharmacy.	Use commas and other punctuation to make sure your meaning is clear.
	c I would like you to come to my birthday party which starts at 6 p.m. on Sunday.	]
	d Although I had very little time, I cooked dinner for my family and washed all of the dishes.	]
Pr	actice	
2	Write some of your own compound-complex sentences to express the following ideas:	
	a Two people are in a car. They are late for work.	
		11 - 11

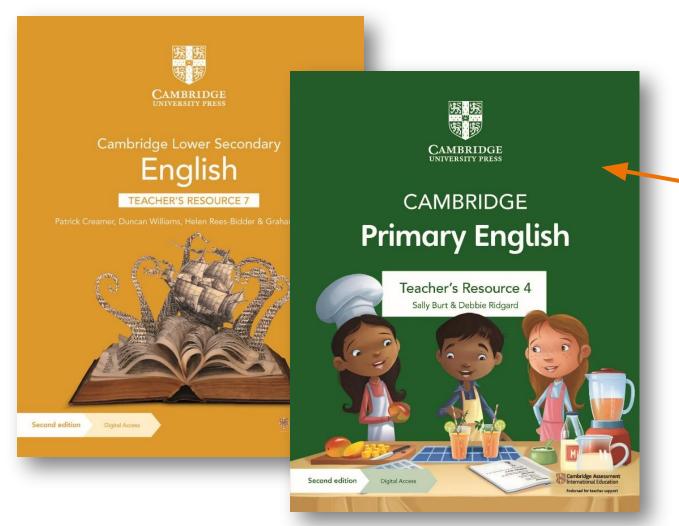
Focus, Practice
and Challenge
sections
provide
scaffolded extra
practice for all
learners

Brighter Thinking

Better Learning

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Introduction to key approaches to learning and teaching

Overview of components in the series

Overview of the curriculum framework

Curriculum framework correlation chart

Lesson plan template

Scheme of work





1 ADVENTURE

### >1 Adventure

#### Unit plan

Session	Approximate number of learning hours	Outline of learning content	Resources
1.1 The start of an adventure	3 hours, 30 minutes	Learners find out about the characters, settings and structure of adventure stories.	Learner's Book Session 1.1 Workbook Session 1.1 Digital Classroom: XX
1.2 Quest!	3 hours	Learners explore how a story might develop and discover how to write and perform a monologue.	Learner's Book Session 1.2 Workbook Session 1.2
1.3 Train trouble 30 minutes Learners explore how to make a spoken anecdote and a written account more interesting.		Learner's Book Session 1.3 Workbook Session 1.3 Language Worksheets 1.1 and 1.2 Language Worksheets 1.4 Differentiation Worksheets 1A, 1B, 1C	
1.4 A hard journey	2 hours, 45 minutes	Learners identify the main events in a poem, explore the use of sound effects created by the poet's choices of language and discuss alternative views of the meanings of a poem.	Learner's Book Session 1.4 Workbook Session 1.4
1.5 Danger!	2 hours, 45 minutes	Learners identify ways in which a writer creates excitement and suspense, and explore the effects of using powerful verbs, ellipses and short sentences.	Learner's Book Session 1.5 Workbook Session 1.5
1.6 Creating suspense	3 hours, 15 minutes	Learners find out how to write an opening for a story which is exciting right from the start and practise using another reader's response to help evaluate and improve their writing.	Learner's Book Session 1.6 Workbook Session 1.6

BACKGROUND KNOWLEDGE
For the teacher

It is useful to have a good understanding of a range different literary genres (historical fiction, traditional folk and fairy tales and myths, science fiction, mystery stories, fantasy fiction, adventure se, etc.). Examples of these genres can be ken from your local culture and from other/ international cultures. Be aware that features of a particular genre are like 'ingredients', and the way writers combine them are like 'recipes'.

Make sure you know how writers use the narrative structure in an adventure story:

- an opening that establishes setting and introduces characters
- · complicating and resulting events

JRE

#### CONTINUED

- a resolution/ending
- variations in chronology, e.g. flashbacks and time-shifts

CAMBRIDGE LOWER SECONDARY ENGLISH 7: TEACHER'S RESOURCE

You can also prepare for the work on sentence types and structure in Session 1.3 by having some extra examples of simple, compound and complex sentences based on learners' everyday experience – for example, their journeys to and from school every day.

#### For the student

It will be useful for learners to have some fapt and with adventure stories, perhaps ones the vave heard or read, or films based on adventure stories. They could also benefit from knowing some following that the stories of the stor

#### TEACHING SKILLS FOCUS

#### Active learning

A powerful idea behind active learning is that learners create knowledge for themselves rather than it being given to them. Learners gain knowledge by doing activities, solving problems, and making new connections in their own thinking. The learner is active in the process of creating their new knowledge and learning. They have not just been told a new fact or concept but rather have understood something well enough to write a text, solve a problem, perform a task well, or discuss a subject in an informed way.

The challenge with active learning is to stop yourself telling learners things that they could discover for themselves. An active learning approach may mean that you have to give learners more time, but it will help them to take ownership of their learning instead of just accepting it as a new piece of knowledge that is handed to them. Learners at this stage already have plenty of experience of adventure stories. Most of the time they have been consumers – being read to, reading stories themselves or watching films. But some they will have been producers, acting out stories as part of their imaginative play and writing stories as part of English lessons. However, they may not have been thinking consciously about how the story was constructed – or, in more literary terms, how the narrative was constructed. This kind of thinking will need some metalanguage.

The notes on this unit include suggestions for active learning approaches. These will help you encourage learners to ask themselves questions about how adventure stories are constructed and identify details in narratives that will allow them to make inferences.

Background
knowledge helps
teachers
understand what
learners need to
know before
starting the unit

The Teaching skills focus helps teachers build confidence in key approaches to teaching and learning

Background knowledge helps teachers to prepare for teaching the unit

The unit plan

acts as a

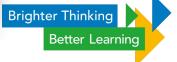
scheme of

work, making it

clear what will

be covered

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The learning plan makes links to the curriculum clear and shows the learning intentions and success criteria for the session

Language support suggestions for every session

> The TR provides a clear route through the session. starting with starter ideas

1 ADVENTURE

#### 1.2 Quest!

#### LEARNING PLAN

Learning objectivess 7Rs.01, 7Ri.01, 7Ri.08, 7Ri.12, 7Ws.01, 7Wc.05, 7Wc.06, 7SLs.01, 7SLp.01, 7SLr.01

#### Learning intentions

learners will: · discuss how stories develop

#### predict how stories will

- · explore the features of a
- · write and perform a monologue

#### Success criteria Learners can

- identify the key features of a monologue
- write and perform an interesting monologue.

#### LANGUAGE SUPPORT

The Speaking tip in this session highlights emphasis and sentence stress. Ensure that learners understand that English is a stress timed language, putting equal emphasis on content words in a sentence. such as nouns and verbs, and less emphasis on other grammatical words, such as articles, prepositions and auxiliary verbs. If learners' first language is syllable timed (such as Spanish or Cantonese), they may find it difficult to recognise and produce

features of English such as contractions, main and secondary stress, and elision.

Learners can practise this by focusing on a sentence and identifying the content words that should be stressed and the grammatical words that should have less stress. This will raise awareness of speech patterns in English and will help learners with both speaking and listening.

How to overcome

#### Common misconceptions

#### Misconception

Some learners might believe that every element of a good adventure story has to be unusua This might lead them to ignore simple elements such as family and friendship, which allow the average reader to identify and sympathise with the character(s).

#### How to identify Ask learners to think back to

Session 1.1. Recap (by asking questions) what was unusual about the setting and situation at the start of the story about Odile.

### Ask learners to suggest one

unusual feature followed by one normal/everyday feature of Odile's situation. Make a two-column list on the board to record what learners suggest. Keep going with this until learners understand how there is a balance between the ordinary and the extraordinary.

#### Starter idea

What is a quest? (15 minutes)

Resources: Learner's Book, Session 1.2, Getting started

Description: Write on the board some of the elements of adventure stories considered in Session 1.1, and the characters involved in them; often involve journeys; characters may have special skills or powers (although not necessarily aware of them at the start); characters

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#### CAMBRIDGE LOWER SECONDARY ENGLISH 7: TEACHER'S RESOURCE

face challenges; often develop friendships to overcome challenges and reach a happy ending.

Ask learners what they understand by a 'quest' and note down some of their interpretations on the board in addition to the elements of adventure stories considered in Session 1.1, which are already marked up on the board. Give them five minutes to complete the Getting started activity.

Afterwards, have a class discussion to ensure they have understood how the word 'quest' is connected to 'question'. Guide them towards understanding that a search of some kind is involved. Ask them what you are searching for when you ask a question. Explain that for centuries the quest has been a common feature of adventure stories.

Ask learners to share ideas from their lists with the class. Write on the board the ones you think are most suitable to help less confident learners to grasp the idea of the quest.

#### Main teaching ideas

#### 1 What happens to Odile next? (30 minutes)

Learning intention: Describe how stories develop. Resources: Learner's Book, Session 1.2, 'Beware Low-Flying Girls' extract, Activities 1 and 2

Description: Direct learners to Activity 1 in the Learner's Book and give them ten minutes to work in pairs to discuss the two ideas about how the story might develop and then compare it to their own predictions. Come together as a class and invite learners to comment on any elements of either version. Use a four-column list on the board to record their ideas - elements they approved of ('pros') and elements they disapproved of ('cons')

Encourage learners to explain their reasons for preferring one version over the other - or for thinking that some parts of either version were better than others. Guide them to think back to the 'ingredients' of adventure stories, and the typical 'recipe' for a quest story.

Direct learners to the introduction to the next part the story. Point out that there are five sentences in this introduction, and that each one contains a new piece of information about what has happened since we left Odile at the end of Session 1.1.

Give them one minute to read the introductory paragraph, then ask them to close their books and to tell you one piece of information at a time. As learners do this, write each item on the board in bullet-point form

- · Ask the class to tell you when they think the list is complete
- · Invite them to comment on any/all of these developments in the plot.
- · Put learners in pairs and give them 15 minutes to read the next extract and complete Activity 2.

Then ask the class for their thoughts about how the story could develop. Encourage them to respon each other's ideas by commenting orthow matched with the bullet points in

#### > Differentiation ideas:

- · Support: While they are working in pairs, guide less confident learners to notice that there are details relating to Odile's senses; she feels (when she kisses his cheek) that her grandfather's skin was colder than usual: the writer compares the smell she notices with a series of very unpleasant things
- · Challenge: Encourage more confident learners to look for details which remind them of other tales of lone girls in a hostile environment. For example, the question the Kraik's voice asks her is like the wolf in the story of Little Red Riding Hood: 'Where are you going, little girl?'

> Assessment Ideas: Set a simple exercise to check learners' understanding of the point the story has reached. Give them five minutes to write just one more sentence to add to the extract - it should be the next thing said by the thin and quiet voice. It might be another question, an invitation or a warning, but it must match the rest of the text.

#### 2 A voice for Odile (30 minutes)

Learning intention: Explore the features of a

Resources: Workbook, Session 1.2, Focus and Practice sections

Description: Prepare by writing the words: Person, Voice, Dialogue and Monologue on the board as headings. Ask learners to look back at the single sentence they wrote at the end of the last activity - and ask them whose voice is speaking in that sentence. Then ask them if we have heard Odile's voice yet in

Most main teaching ideas suggest differentiation ideas

Most main teaching ideas suggest assessment ideas

Brighter Thinking **Better Learning** 

**Building Brighter Futures Together** 

23 >



1 ADVENTURE

### 4 Using sentence structure and punctuation for dramatic effect (30 minutes)

Learning intention: Explore the effects of language and grammatical choices.

Resources: Learner's Book, Session 1.5, Activities 4-6

Description: Direct learners to Activity 4 and read the first sentence aloud. Explain that Activities 4, 5 and 6 are about different language techniques writers use to create suspense and tension.

Give learners 20 minutes to work through Activities 4 and 5, and to complete planning for Activity 6, in pairs.

After they have done the planning for Activity 6, by picking out examples from the extract, give them more time to work individually on writing the paragraph.

#### > Differentiation ideas:

Support: Observe and listen to pairs as they work on Activities 4 and 5. You can intervene with help and guidance if you think learners need help to find examples or misunderstand the effect of the examples they have found.

Challenge: Remind more confident learners about the last point in the Reading tip. The use of short sentences will not always have the same effect.

Assessment Ideas: Use whole-class discussion to gather the answers to this sequence of activities. Work through each in turn, inviting learners to offer their ideas and encouraging other learners to challenge or question or add to the points raised. Explore some examples in detail – for instance, the sequence of (mostly) short sentences near the end of the extract, running from 'He didn't move.' to 'He'd be stuck.' Going into detail and insisting on explanations will help you to assess whether learners are improving their ability to evaluate effects or just getting better at identifying features. (Being able to identify features is a necessary basic skill, but being able to go on to evaluate the effects is an important higher-order reading and language skill.)

#### Plenary idea

### Reading and performing a story aloud (30 minutes)

Resources: Learner's Book, Session 1.5, Silverfih extract, Activity 7

Description: Direct learners to Activity 7. Tell them they will have 15 minutes, working in pairs, to do the following:

- take it in turns to read the extract once aloud to each other
- · look at the Activity 7 prompts and the Speaking tip
- work out how to do a joint reading of the extract, and make some notes as a reminder of what to focus on.

After 15 minutes, combine pairs of learners into groups of four and give them an additional ten minutes in which each pair of learners will perform their joint/ paired reading.

Peer assessment: Ask learners to give each other feedback on each other's paired reading based on the prompts in Activity 7 and the points in the Speaking tip as a checklist. End by asking the class: 'What do you understand better in the extract now that you have performed and listened to an effective reading?'

#### CROSS-CURRICULAR LINKS

Biology: Learners could explore ideas about how our brains process the stories that we read, the images that we see or films that we watch. They could research what happens to our minds and emotions when we read about people in dangerous situations.

#### Homework idea

Learners should complete Workbook Session 1.5 for homework.

### Downloadable teaching resources:

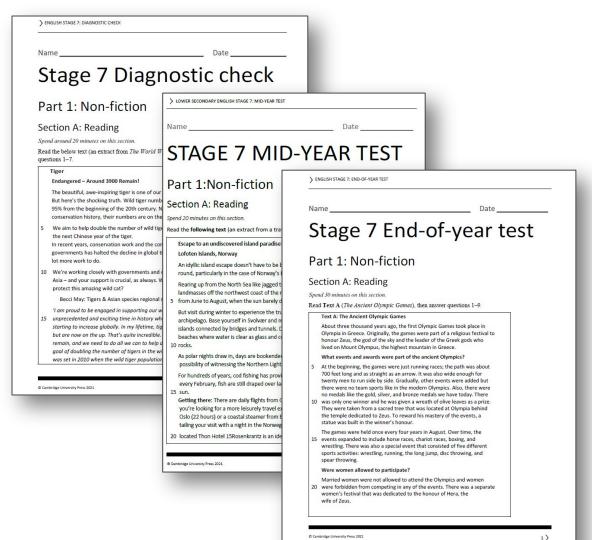
- Language worksheets
- Differentiation worksheets
- Extract sheets (Stage 7-9)
- Audio recordings and transcripts
- Answers







### **Assessment opportunities**



### Downloadable assessment resources:

- Diagnostic check
- Mid-point test
- End of year test
- End of unit tests

Section A: Reading  Read the extract from: Aronnd India on 80 Trains by Monisha Rajesh, then answer questions 1–8.  Chennal Egmore station could be heard before it was seen. A cacophony erupted as we made our way under the arches, running after Subbu who had been instructed to come with us to the platform. Indian stations are not designed for running. An assault course lay between us and Subbu, who was winding deeper and deeper into the sea of boxes and briefeases and body parts. We ducked and wove around the slalom of wooden carts wheeled by men with no sense of urgency, stringe of hand-holding, children, hobbling dogs, stacked hessian sacks, nose-pickers, watersellers, booksellers and red-shirted porters. Subbu now stood by our train, under a digital sign reading 182, his face powder dry, as we lot bent double, sweat running down our bodies.  Engines hissed and thudded as they began to move, high-pitched announcements singing out his breakneck-speed Tamil, while the smell of dried fish crept up my nostris. Passepartout leapt about, clicking away, and I smilled weakly for the camera before boarding the Annatapur Espores so to 18 Algercoil. Subbu had already found our seats and placed our bags on each by the time we squeezed through.	vdſ	ne Date
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Inansing nin, we dug out bottles or water, increasons, pens, tonet paper; flannels and flip-flops, much to the amusement of our companions who had already chained up bags, hidden shoes, plugged in phones and sat down or cross-legged, watching us. At 7.20pm the train jerked. Subbu bowed and slunk off as the train glided out of the station. Through the tinted window he was soon no more than a saluting silhouette.	20	already chained up bags, hidden shoes, plugged in phones and sat down cross-legged, watching us. At 7.20pm the train jerked. Subbu bowed and slunk off as the train gilded out of the station. Through the tinted window he was
We were on the move.		We were on the move.





### **Review comments from Cambridge Assessment**

Cambridge Primary & Lower Secondary English



- **Primary**: "CUP have listened very carefully to what teachers around the world struggle with and what support they need to deliver the curriculum successfully and CUP have produced the perfect materials to do this."
- Lower Secondary: "Commendations to the Press team, as well as to the new author team on this massive improvement on the current edition! The team has done a superb job of giving this course book a true international feel."





# Cambridge Primary and Lower Secondary English as a Second Language







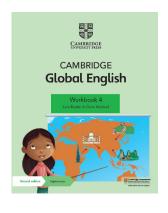
### **Series components**













Learner's book with digital access stage 1 - 9

Core learner activities

Digital learner's book stage 1-9

Digital only version of the learner's book

Workbook with digital access stage 1-9

Additional, differentiated practice opportunities

Teacher's resource with digital access stage 1-9

Everything teachers need to plan and run the course





### Key curriculum changes for first teach in 2021

Cambridge Primary & Lower Secondary English as a Second Language



New speaking sub strands



Clearer CEFR alignment



Clear path way to IGCSE





# Differences between First Language English and English as a Second Language



	English	English as a Second Language
Learners	Learners who speak English at home or at pre-school and already have spoken English skills	Learners who speak a language other than English at home.
Aims	<ul> <li>Communication for a range of different purposes and audiences</li> <li>Evaluation and analysis of written and spoken language</li> <li>Critical reading of literary texts from different periods and cultures</li> </ul>	<ul> <li>Practical communication</li> <li>Awareness of the nature of language and language-learning skills</li> <li>Ability to study using English as the medium of instruction.</li> </ul>
Curriculum	Three strands: Reading, Writing, Speaking and listening	Five strands: Reading, Writing, Speaking, Listening and Use of English
Assessment	Paper 1 Reading and Writing (non-fiction), Paper 2 Reading and Writing (fiction)	Paper 1 Reading and Usage, Paper 2 Writing, Paper 3 Listening





### **Global English – key features**







International themes



21st century skills



Cross-curricular





Pedagogical approach: 21st Century Skills

Skille for I ifa





ghter Thinking

Better Learning



### **Cross-curricular content**







> 2.2 Eat for strength and energy!

#### We are going to...

2 Sport

· find out how food helps us to do sport.

- 1 Talk What do you know about food and exercise? What kind of food helps you with sports and physical activity?
- 2 Improve your energy! Find out how with a quick quiz! Are the statements true or false?
- Yoghurt and milk help to build strong bones.
- If you eat sugary food, you'll have energy for a long time. Make sure you have lots to eat before doing exercise.
- 4 If you drink plenty of water, it'll stop you from feeling thirsty.
- 3 Read and listen to the text and check your answers to the quiz in Activity 2.

#### Tips for health and energy!

Did you know that top athletes pay as much attention to what they eat as how they train? Your eating habits can really help your body when you do sports and exercise. Here's how to keep your body in tip-top condition.

Eat healthy carb wholemeal bread, pasta, brown rice, vegetables and beans. You will give your body energy for exercise and feel fuller for longer.

Don't eat too much white bread and sugary food. If

you eat these foods, you'll get a quick energy lift, but later you'll feel tired more quickly.

Feel hungry before doing sport? Have a banana or some fruit! This food is easy to digest. If you have a lot of food before exercise, you'l probably get a stomach ache!

Drink lots of water. Your body needs water to stay healthy. If you drin plenty of water, you'll stay cool and hydrated when you do sport.

30 >

Finding specific information

First, decide what information you want to find out in a text. Then look for that information when you read.

true / false

Eat protein to help your body get stronger.

Protein repairs your muscles after

your muscles. Good protein foods are chicken, beef, fish,

Drink plenty of milk

yoghurt. These foods co

calcium to give you stro

eggs, milk, green vegetables and

exercise and helps your blood cells

true / false true / false

true / false

3 You'll feel thirsty and tired 4 If you eat foods with calcium,

5 Your stomach won't feel good

6 If you eat plenty of fruit and vegetables. f you won't have enough energy.

Use the information in the text and your own ideas.

Try to eat two fruit and three vegetables a day. If you eat enough fruit and vegetables, you'll...

Use of English - 1st conditional with if / unless

#### 2.2 Health education

4 Talk Which tips in the text do you follow already? What other tips do you know? Talk to your partner!

#### Key words: nutrition

carbohydrate: a substance in food that provides the body with energy

nutrients: substances you need to live and grow oxygen: a chemical you need to live and breathe digest: to change food so your body can use it

5 Use of English Read the Use of English box and match the sentence halves.

1 If you eat less sugary food, — 2 Unless you eat enough carbohydrates,

- a your bones will grow strong.
- if you don't drink enough water.
- you'll have more energy
- d if you eat a lot before doing sport.
- e your body will get the vitamins it needs.
- 6 Find more examples of the 1st conditional in Activity 2 and the text.
- 7 Write Make an energy tips poster, using 1st conditional sentences.

#### Cross-curricular links

#### Geography:

Where am I in the world?

### Health education:

Table completion

Listen to: 'The Seekers'

Comprehension questions

Eat for strength and energy

#### ly Critical thinking/ Values Values: Helping people in our community Venn diagrams Comparing and contrasting lives of children

Science: Planets and orbits Contractions Values: Including people around us Identifying natural landscapes Rhymina words Identifying planets in solar system Expressing opinions about poetry

### Contents

The solar system

Scientific words

Natural events

Page	Unit	Words and expressions	Use of English	Reading/Writing	Listening/Speaking
11-26	1 Our community	Adjectives Families, sports and hobbies P.E. verbs Jobs	both and too Adverbs of frequency Verb + infinitive/-ing	Communities Table completion An inspirational sports player Sentence correction Write a leaffet Writing tip: Imperatives Gist Make connections Literature: The Treasure	Talk about why families are specic School helpers describe their jobs Interview and find out about school helpers Listen to: The Treasure'
27-42	2 Earth and	Adjectives to describe landscapes	Comparatives	Our solar system	Prediction

Do a quiz

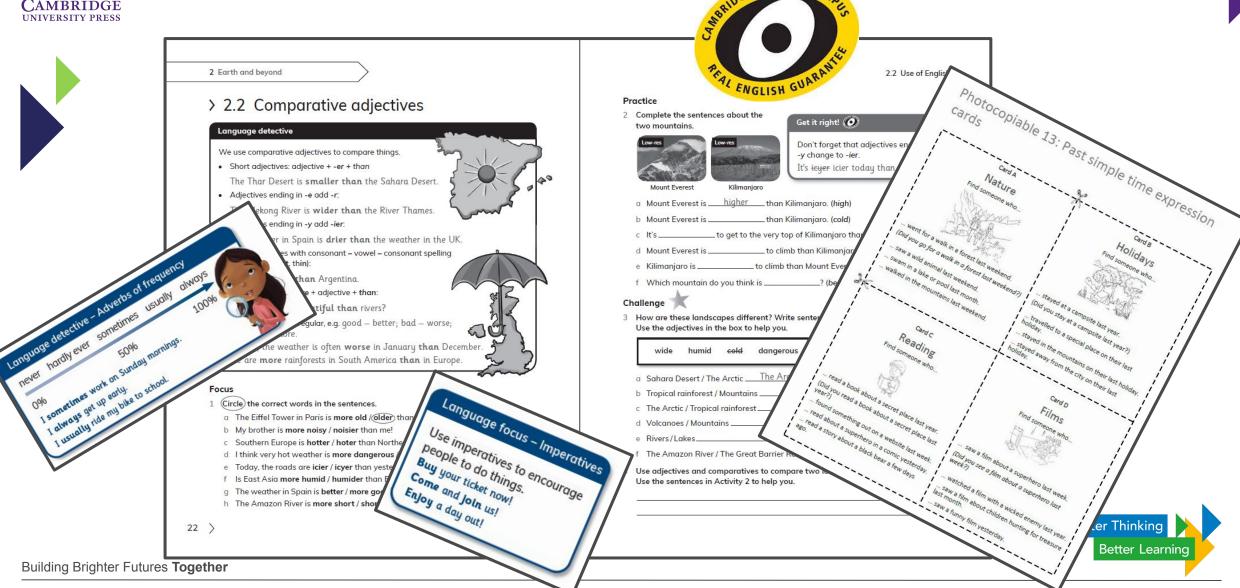
Write a fact file about a spacecraft

Writing tip: Present simple to describe

Building Brighter Futures Together



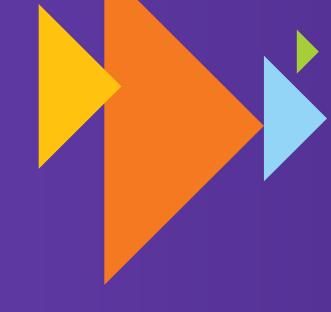
### Language support: Improved grammar coverage







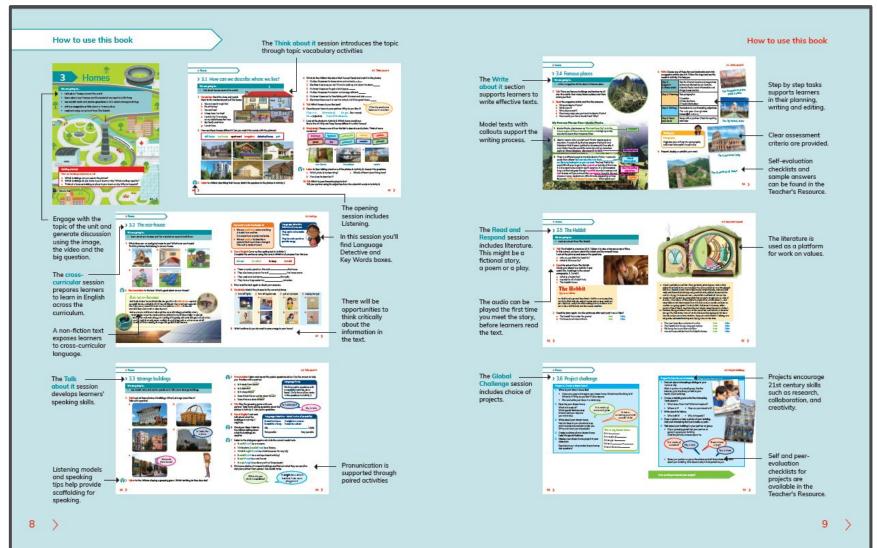
# Resource walkthrough



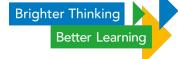


### Navigation





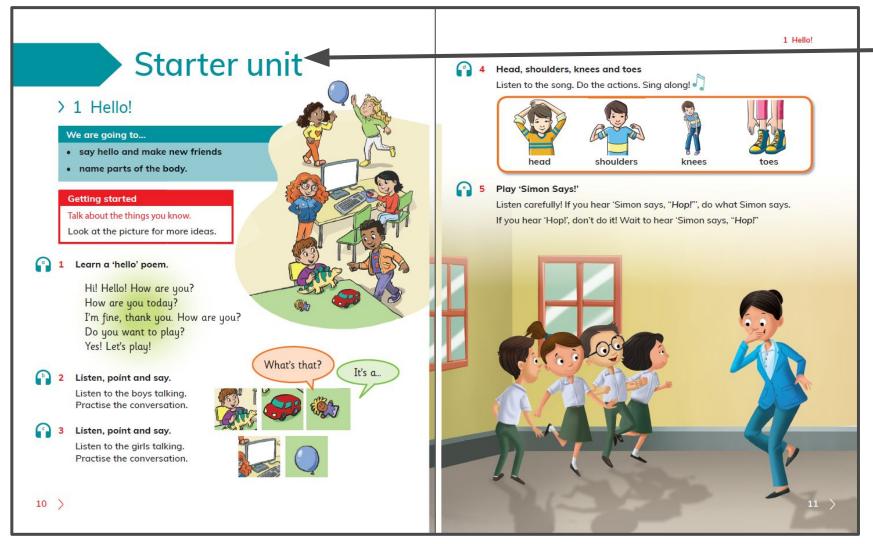


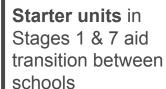




### Supporting transitions











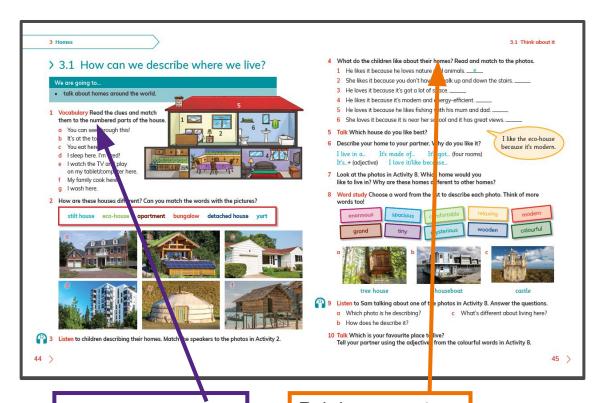
## Learner's Book Unit Opener & Think About It

Unit learning objectives

Engage with the topic using the image, the video and the big question

Prior learning





The **Think about it** session introduces topic Vocabulary and Listening

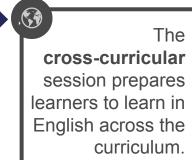
Rubrics support better classroom interaction

Brighter Thinking

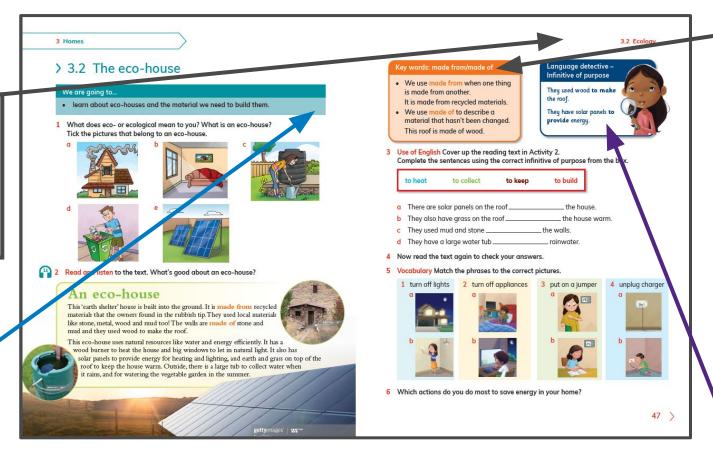
Better Learning



### Cross-curricular spread



Lesson learning objectives



The **key words** feature presents cross-curricular vocabulary, Academic English terms and command words.

Language detective boxes present the main grammar

Language Focus boxes offer a brief revision of other grammar points





### Talk about it





3.3 Talk about it Pronunciation Listen and repeat the yes/no questions below. Use the arrows to help you. Practise with a partner. Language focus a Is it made from boo We form yes/no questions with b Is it colourful? an auxiliary verb (be, do or c Is it a bag shape? have). Circle the auxiliary verbs d Does it look like an upside-down in the questions in Activity 3. e Does it have a shoe outside? 4 Talk Play the guessing game with your Is it colourful? partner. Take turns asking questions about the No, it isn't. photos in Activity 1. Ask yes/no questions. 5 Use of English Look and Language detective - Modal erbs of possibility talk about what the buildings in Activity 1 It might be a m It can't be a house. might be. It could be a library. It must be a scho 6 Check your ideas. Listen to 100% the children talking about what the buildings are Not possible Very pos used for. 7 Listen to the dialogues again and circle the correct modal verb.

The **Talk about it** session develops oracy.

New: pronunciation

Brighter Thinking

Better Learning

Listening models

What do you think it could be?

f It must / might be a library with all those books!

Ask your partner their opinion. Use modal verbs.

8 Find some photos of unusual buildings and find out what they are used for.

a It could / can't be a museum.
 b I think photo 2 could / must be a factory.
 c I think it might / must be a hotel because it's very big!
 d It could / can't be a cool apartment building!

e It can't / must be a real house!

It **might** be a school because I can see a playground.

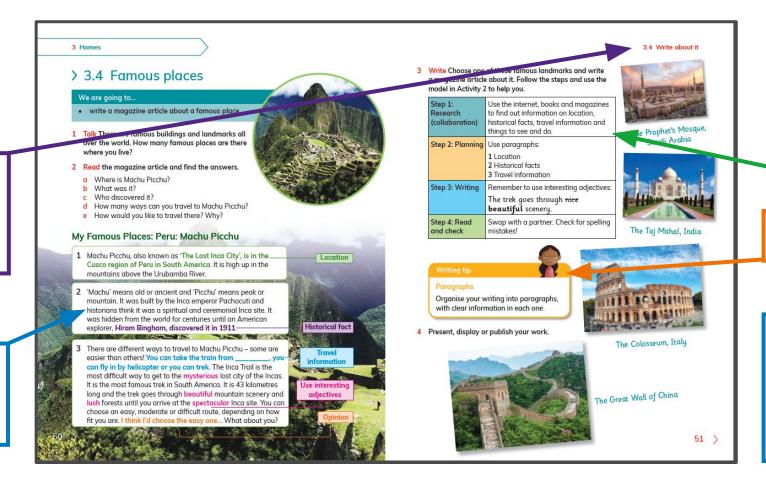


### Write about it



The Write about it lesson supports learners to write effective texts.

Model texts with callouts support the writing process.



Process Writing approach supports learners in their planning, writing and editing.



Strategy training

Self-assessment criteria and sample answers are provided in the Teacher's Resource





### Read & respond



### > 3.5 The Hobbit

#### We are going to...

- · read an extract from The Hobbit.
- 1 Talk The Hobbit is a book by J.R.R. Tolkien. It is also a famous series of films. In this extract, we learn about the hobbit and his unusual home. Look at the pictures and answer the questions.
  - Who do you think the hobbit is?
- b What is his home like?
- 2 Read the extract from The Hobbit. Check your ideas from Activity 1 and match the headings to the correct paragraphs, 1, 2 and 3.
  - What is a hobbit like?
  - b Description of a hobbit-hole
  - c The hobbit's house

#### The Hobbit

by J.R.R. Tolkien.

In a hole in the ground there lived a hobbit. Not a nasty, dirty, wet hole, filled with the ends of worms and an oozy smell, nor yet a dry, bare, sandy hole with nothing in it to sit down or to eat: it was a hobbit-hole, and that means comfort.

3 Read the story again. Are the sentences after each part true or false?

The hobbit lives under the ground.

true / false

b His home is not nice to live in.

true / false



5 It had a perfectly round door like a porthole, painted green, with a shiny yellow brass knob in the exact middle. The door opened on to a tube-shaped hall like a tunnel: a very comfortable tunnel without smoke, with panelled walls, and floors tiled and carpeted, provided with polished chairs, and lots and lots of pegs for hats and coats - the hobbit was fond of visitors. The

10 tunnel wound on and on, going fairly but not quite straight into the side of the hill - The Hill, as all the people for many miles around called it - and many little round doors opened out of it, first on the one side and then on another. No going upstairs for the hobbit: bedrooms, bathrooms, cellars, pantries (lots of these), wardrobes (he had whole rooms devoted to clothes),

15 kitchens, dining-rooms, all were on the same floor, and indeed on the same passage. The best rooms were all on the left-hand side (going in), for these were the only ones to have windows, deep-set round windows looking over his garden, and meadows beyond, sloping down to the river.

c The door looks like a window in a ship.

d The hobbit's hall is very long and narrow.

e His house has more than one floor.

f You can't see outside from the hobbit's house.

true / false

true / false true / false

3.5 Read and respond

true / false

The literature is used as a platform for work on values...

> ...and creative writing

53 >

Brighter Thinking Better Learning

The Read and Respond

> session includes international literature

The audio can be played the first time you meet the story, before learners read the text.

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### Project challenge



The Project
Challenge
session includes
choice of
open-ended
projects.

Projects encourage 21st century skills such as research, collaboration, and creativity. 3 Living things

### > 3.6 Project challenge

#### Project A: A presentation about how an animal survives







1 Work in small groups. Choose an animal for your presentation and brainstorm things you know already. Write four questions to find out about how it survives. Think about:

mammals reptiles amphibians birds insects fish

2 Research your animal using the internet or library. Use your questions to plan your research. Each group member should take a question to research. Here are some ideas for your questions:

habitat hunting and prey place in the food chain caring for young climate

- Plan your presentation together. Use your questions to organise and write your presentation.
- 4 Create visuals to go with your presentation. Which visuals will engage your audience and make them want to listen and find out more? Think about:

  videos 3D models real objects photos diagrams/illustrations
- 5 Check and practise your presentation together, using the visuals. Each group member should present a part.
- 6 Deliver your presentation as a group to your class, with each group member delivering a part.

Project B: Create a quiz about an animal

Work in pairs and choose an animal. Research information about your animal on

animal type features habitat how they survive what they eat

Write a quiz for another pair to answer.

- Include at least one question about each of the topics in Activity 1.
- You can include images too, e.g., photos, illustrations and diagrams.

the internet or in books or magazines. Find out about:

- Make sure you have noted down the answers!
- 3 Check your quiz questions. Check spelling and grammar and correct any errors.
- 4 Now write your quiz questions and add visual images. You can type or write the questions by hand (make sure your handwriting is clear and easy to read).
- 5 Swap your quiz with another pair and answer each other's questions. When you have all finished, get together to check your answers.
- At the end, get together as a class and share two new pieces of information you have learned from each other's quizzes. Make a classroom display of the quizzes.

What did you enjoy most about doing your project?



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Self and peer-evaluation checklists for projects are available in the Teacher's Resource.

Reflection on learning processes



Brighter Thinking

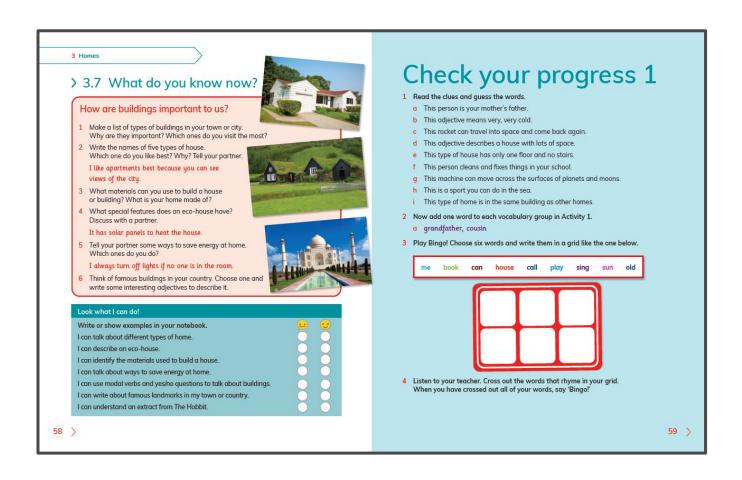
Better Learning

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### Look what I can do / Summary Checklist & Check your progress





Games and activities cover what you have learned in the unit or the previous 3 units





### Workbook



Deductive Presentation 2 Earth and beyond

### > 2.2 Comparative adjectives

#### Language detective

We use comparative adjectives to compare things.

Short adjectives: adjective + -er + than

The Thar Desert is smaller than the Sahara Desert.

· Adjectives ending in -e add -r:

The Mekong River is wider than the River Thames.

· Adjectives ending in -y add -ier:

The weather in Spain is drier than the weather in the UK.

· Short adjectives with consonant - vowel - consonant spelling (e.g. big, hot, fat, thin):

Brazil is bigger than Argentina.

· Long adjectives: more + adjective + than:

Are lakes more beautiful than rivers?

Some adjectives are irregular, e.g. qood - better; bad - worse;

In the UK, the weather is often worse in January than December There are more rainforests in South America than in Europe.

#### Focus

- 1 (Circle) the correct words in the sentences.
  - a The Eiffel Tower in Paris is more old /older than the Shard in London.
  - b My brother is more noisy / noisier than me!
  - c Southern Europe is hotter / hoter than Northern Europe.
  - d I think very hot weather is more dangerous / dangerouser than very cold weather.
  - e Today, the roads are icier / icyer than yesterday.
- f Is East Asia more humid / humider than Europe?
- g The weather in Spain is better / more good than the weather in the United Kingdom.
- h The Amazon River is more short / shorter than the River Nile.

#### Practice

2 Complete the sentences about the two mountains.





Get it right!

Don't forget that adjectives ending in -y change to -ier.

2.2 Use of English

It's icyer icier today than yesterday.

a Mount Everest is <u>higher</u> than Kilimanjaro. (high)

b Mount Everest is \_\_\_\_\_\_ than Kilimanjaro. (cold)

\_\_\_\_\_to get to the very top of Kilimanjaro than Everest. (difficult)

\_\_\_ to climb than Kilimanjaro. (dangerous) d Mount Everest is \_\_\_\_\_

e Kilimanjaro is \_\_\_\_\_\_ to climb than Mount Everest! (easy)

f Which mountain do you think is \_\_\_\_\_? (beautiful)

#### Challenge T

3 How are these landscapes different? Write sentences to compare them. Use the adjectives in the box to help you.

a	Sahara Desert / The Arctic The Arctic is colder than the Sahara Desert						
b	Tropical rainforest / Mountains						
С	The Arctic / Tropical rainforest						
d	Volcanoes / Mountains						
е	Rivers/Lakes						
f	The Amazon River / The Great Barrier Reef						
	lse adjectives and comparatives to compare two landscapes in your country. Ise the sentences in Activity 2 to help you.						

3 tiered approach to differentiation of grammar

23 >



### Supporting good teaching



#### Main teaching ideas

- Adjectives to describe the weather (5 minutes)
  - · Ask learners what an adjective is. If they are unsure, remind them. Write weather nouns and verbs on the board from the Starter activity, e.g. rain, raining. Elicit the adjective rainy.
  - Allow pairs of learners a minute to write down as many weather adjectives as they can.
  - Build up a list of adjectives on the board.

Answers:

Learners' own answers.

Lesson notes and answer keys



**Professional** development **TEACHING SKILLS FOCUS** 

Cross-curricular learning

What is cross-curricular learning?

Cross-curricular learning is also known as interdisciplinary learning (or teaching). It is an Integrated learning framework where learners are encouraged to apply/contrast knowledge from two or more subject areas at the same time. For example, a modern English language textbook will not just focus on rules about the English language. It will contain reading and listening activities that draw on knowledge from a variety of subjects, as well as projects that require learners to combine owledge and skills from several disciplines.

The Global English Learner's Book doesn't just focus on aspects of the English language. So far, learners have read, listened and discussed texts about communities, Earth and space, homes, food and adventures, drawing on knowledge and skills from other subjects like citizenship, art, literature, science and creative writing. There are crosscurricular links throughout the teacher's resource to help signpost/support teachers with CCL.

Although cross-curricular learning requires more planning and collaboration between teachers, It can offer a number of benefits. Learners will be more motivated by projects on subjects and

issues that interest them than if they just studied English grammar rules. This increased motivation will make it easier to engage learners, which has been shown to improve their performance in tests. As learners look at information from a variety of different sources, there is also the opportunity to approach each subject from a wider perspective. Cross-curricular learning can be a way to address fragmentation of knowledge and skills, and to give extra support for achieving learning objectives.

When using Global English, consider links between activities and other subjects in order to differentiate between learners. For example, if your learners have studied road safety in another class, it can be an opportunity to create more learner-centred activities, to let them demonstrate what they already know. Have a look through Unit 6 and make a list of all

the cross-curricular learning links with different subjects studied in your country.

More information about cross-curricular learning/ interdisciplinary learning can be found in Cross-Curricular Approaches to Language Education, published by Cambridge Scholars Publishing.

GLOBAL ENGLISH 4 TEACHER'S RESOURCE

### > Framework correlations

Stage 4 correlated with Cambridge Global English, Stage 4

Below you will find a table setting out specifically where to find coverage of the framework objectives for Stage 4.

ns and events, using a short sequence of sentences

	ge Primary English as a Second Language m framework: Stage 4	CGE Unit 1	CGE Unit 2	CGE Unit 3	CGE Unit 4	CGE Unit 5	CGE Unit 6	CGE Unit 7	CGE Unit 8	CGE Unit 9
LISTENIN	IG .									
Listening	for global meaning									
4Lm.01	Understand, with support, the main point of short talk.		1		1	1	1			1
Listening	for detail									
4Ld.01	Understand, with support, a range of instructions.	1	1	1	1	1	1	1	1	1
4Ld.02	Understand, with support, an increasing range of questions which ask for information.	1	1	1	1	1	1	1	1	1
4Ld.03	Deduce meaning from context, with little or no support, in short talk.	1	1	1	1	1	1	1	1	1
4Ld.04	Understand, with little or no support, most specific information and detail of short talk.	1	1	1	1	1	1	1	1	1
Listening	for opinion									
4Lo.01	Recognise, with little or no support, the opinions of the speaker(s) in short talk.			1	1	1				1
SPEAKIN	G									-
Commun	ication									
45c.01	Give basic information about themselves and others using a short sequence of sentences.	1	1	1	1	1	1	1	1	1
	Describe people, places and objects, and routine past and present		1	1	1	1	1	1		

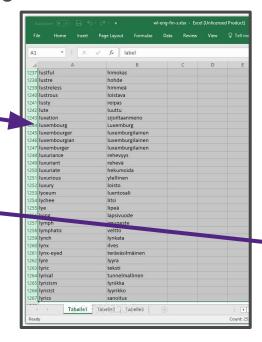




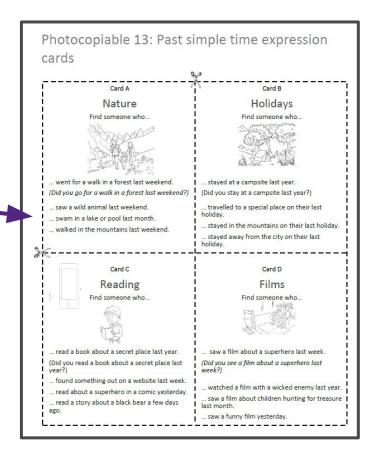
### Extending language learning



Wordlists and communicative grammar games











### Assessment for learning



### Unit 1: A post for the school website

#### Sample answer 1

My first few weeks at secondary school have gone well. At first I know anyone, but after few time I meet good friend, name was Alex because he new like me at the school and we are become friendly.

My favourite subject is chemistry. It's fun learning how do you do the experiment, but weve had quite homework, but not much in the fisic. Although I hate fisic is too difficult.

I've had good mark in English and I haven't done so well in Chinese but I need for the future.

I've joined the club of football and I've been very well.

I've enjoyed all at my school and I've learned too much.

I've made some new friends so All in all everything has been for me good.

128 words

Sample student written answers with teacher comments

#### Attempt

#### Adequate.

#### Language/Ambition

Uses simple grammatical forms with reasonable control.

#### ange

Attempt at range of vocabulary, e.g. 'do the experiment', 'need for the future'. Also attempt at some complexity in grammatical forms though with some loss of control, e.g. 'At first ... become friendly'.

#### Organisation/Cohesion

Paragraphed as in the suggested plan. Linking words used, e.g. 'but', 'because', 'so'. 'Although' is attempted, but is incorrect here.

Relative pronouns are studied in this unit but opportunity for use missed here – 'I meet good friend, name was Alex'.

#### Accuracy

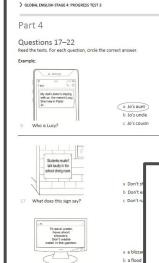
A number of errors are present, e.g. 'I know anyone', 'I've learned too much'. Has made good use of the suggestions in the plan.

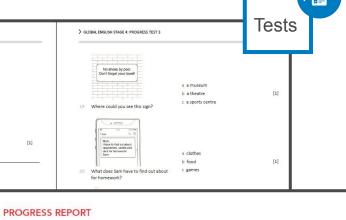
#### Communicative achievement

While errors are noticeable, meaning can still be determined.

#### Content

On task.





### Unit 2

	Curriculum code	Comments
Listen for specific details comparing natural landscapes.	4Ld.04	
Use comparative adjectives to write a quiz about landscapes.	4Ug.11	
Ask and answer quiz questions about landscapes.	4Sc.03	
Find specific information about planets in a text about the	4Rd.01	
solar system.	4Sc.03/4Ug.11	
Use superlative adjectives to ask and answer questions about the solar system		
Describe an experience using a sequence of sentences.	4Sc.02	
Understand specific details of a short commentary describing an experience.	4Ld.04	
Understand the main points of a short fact file about a space	4Rm.01	
shuttle.	4Wor.03	
Organise information to create a fact file about a spacecraft.	3848C07C04C1-CV	
Read and enjoy a poem, understanding its underlying message.	4Rm.02	
Write a simple descriptive poem about unit topics using	4Wc.03/4Wor.03	
adjectives.	4Wc.02	
Design a space shuttle and describe an imaginary journey.	4.1972	

Progress Report

Brighter Thinking

Better Learning



### Personalising learning



Name	Date	Name	Date
Worksheet 6A: Lan	guage for telling stories 2	Worksheet 6B: Lang	guage for telling stories 2
How to make the past simple:	nort and finished.  action, especially if the action is interrupted.  to regular verbs. She walked in the woods.  She didn't walk in the woods.	How to make the past simple:	hort and finished. r action, especially if the action is interrupted. Ito regular verbs. She walked in the woods She didn't walk in the woods.
<ul> <li>Use was not/were not + verb+ing for She was not walking in the woods.</li> </ul>		Use was not/were not + verb + ing f     She was not walking in the woods.	
past continuous verbs.  Example: Rabin <u>act</u> lost while the w  a She ran off the track because she b Rabin sat down near a tree and s  c While Rabin was crying, she saw	ne was feeling very sad and worried.  snake.  p, the rabbit was standing by her head.  her her father called her.  tt + verb+ing to form for questions.  Ig the past continuous.  skilling (walk) in the street?  he desert.	1 She ran off the track because s 2 Rabin sat down near a tree bet 3 While Rabin 4 When she woke up, the rabbit 5 Rabin b Highlight the past simple form in e	se verbs in the past continuous:  follow (2) stand walk  y on pages 102–104 of the Learner's Book.  the a rabbit: cause she very sad and worr she saw a snake. the rabbit when her father called her,
a (Rabin, walk) No, she wasn't. She was walking loshe, feel) No, she wasn't. She was feeling (the rabbit, sit) No, it wasn't. The rabbit was sta d (the rabbit, run) No, it wasn't. The rabbit was rur	happy? sad and worriednear her head? nding near her headoff along the river?		

Differentiated worksheets

Differentiation guidance





# Professional development for Cambridge Primary & Lower Secondary







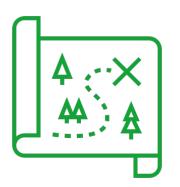


### **Product overview**











Preparing to Teach courses

Cambridge Teaching Skills Roadmap

Cambridge Teacher
Support Service





# How are the Preparing to Teach courses delivered?





Preparing to Teach courses are available in three formats:



recordings)







## What do the Preparing to Teach courses cover?





Preparing to Teach courses are available for every subject and level:

Cambridge Primary English Cambridge Global English (Stages 1-6)

Cambridge
Primary
Mathematics

Cambridge Primary Science

Cambridge
Lower
Secondary
English

Cambridge
Global
English
(Stages 7-9)

Cambridge
Lower
Secondary
Mathematics

Cambridge
Lower
Secondary
Science





# An example of the Cambridge Teaching Skills Roadmap



Communicating the objective/intention(s) in an exciting way, linked to real life where possible

#### Ineffective Practice

Lesson objectives/intentions are not shared.

Teachers introduce the lesson with activity-centred language

#### Successful Practice

Lesson objectives/ intentions are shared in pupilfriendly language and direct connections are made with previous lessons and previous experience. There is some attempt made to 'hook' the students with engaging and relevant content.

#### **Excellent Practice**

Teachers choose an imaginative and engaging opening strategy (hook) to stimulate interest and link the learning to real life. Lesson objectives/intentions are shared in the context of students' responses and previous learning.

#### Introducing the lesson in pupil-friendly language:

In this video, the teacher introduces the lesson in clear and pupil-friendly language.

Video Source: Videolearning.co.uk

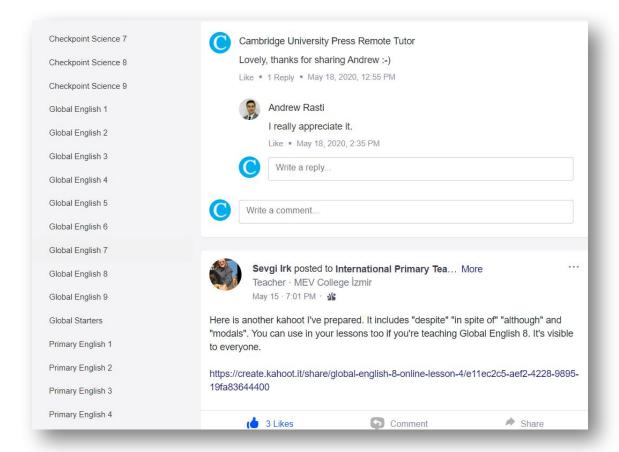


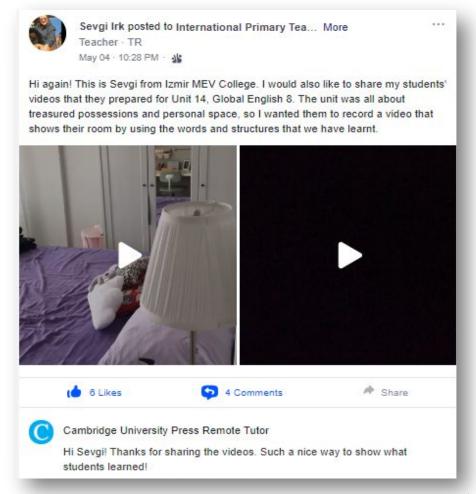


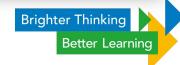


# An example of the Cambridge Teacher Support Service











# A summary of how our offer meets school needs



Customer needs	Preparing to Teach courses	Cambridge Teaching Skills Roadmap	Cambridge Teacher Support Service
<ul> <li>Introduction to resources and key pedagogies:</li> <li>All teachers trained on resources and key pedagogies</li> <li>Support for HODs responsible for training their teams</li> <li>An introduction to teaching our series remotely</li> <li>A low-cost solution</li> <li>Certificates</li> </ul>	ر ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا		
<ul> <li>Improvement in teaching skills:</li> <li>To see key teaching skills in practice</li> <li>Reassurance – are we doing active learning right?</li> <li>Consistency of teaching across staff and campuses</li> <li>To structure long term progress for teachers</li> <li>Support in becoming a 'Cambridge school'</li> </ul>		<b>↓</b> × <b>♠</b>	
<ul> <li>Sustained personalised support:</li> <li>Sustained and intensive help</li> <li>Cambridge trainers available for questions year-long</li> <li>Regular webinars</li> <li>Connection with global teacher community / fresh ideas</li> <li>Parents to feel 'value add' of Cambridge</li> </ul>			



# Assessment support for Cambridge Primary & Lower Secondary





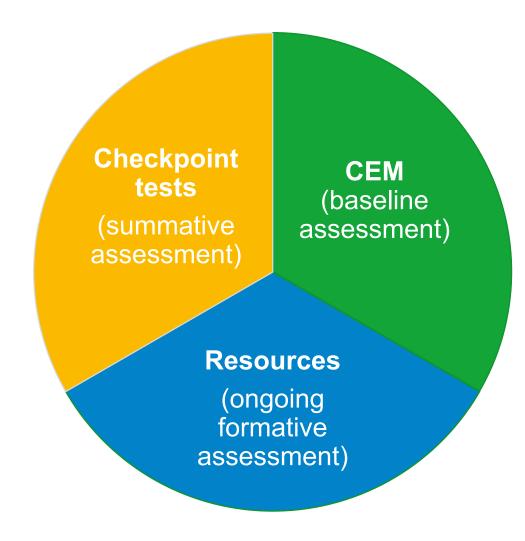




# A complete assessment offer with Cambridge











## **Assessment in our resources**



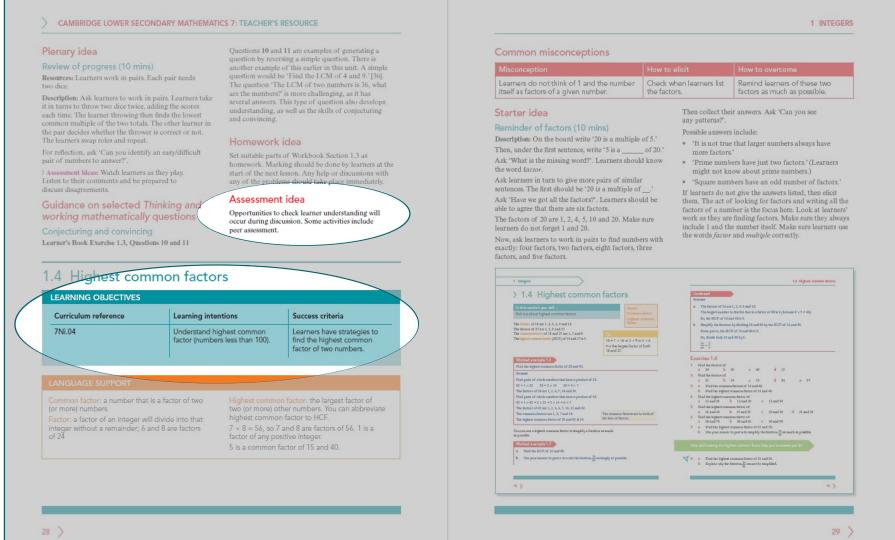






# Assessment for learning – in the teacher's resource









# Assessment for learning – in the teacher's resource



Va	ime Date	
S	tage 7 End of unit 1 test	
	culators are not allowed.	
L	Work out:	
	a 8+-12	
	<b>b</b> -69	
		[;
2	Fill in the missing integer in each calculation. $a = x = 5 = -15$	
	a _ x 5 = -15 b _ ÷ 4 = -8	[2]
	Find the lowest common multiple of 6 and 10.	Į².
		[2
	Find the highest common factor of 24 and 40.	
,	Work out <del>₹</del> 125 – <del>₹</del> 27.	[3
		[:
5	The cube root of a number is 4. Work out the square root of the number.	
		[3
7	The highest common factor of two numbers is 3. The lowest common multiple of the two numbers is 18.	
	Work out the two numbers.	





# Assessment for learning – in the learner's book



The second sentence is longer and more detailed. The first clause introduces an image of the clutter of the station. The subordinate clause (who was winding . . . ) contains more detail, using 'and' twice. The effect is to convey the huge number of things in the station. The length and detail of the sentence reflects the detail of the scene being described.

Copy and complete the following table in your notebook to identify examples of simple, compound and complex sentences comment on their effect. Explain how the writer builds up detail and the impression this gives the reader.

Sentence type	Example	Effect
Simple		
Compound		
Complex		

5 In Activity 1, you told an anecdote about difficult journey. Now turn this into a written version. Before you write, think about how you will describe the scene. Remember how the extract uses lots of images, lists and interesting words to bring the scene to life. Use a range of simple, compound and complex sentences to add detail and variety to your writing.

#### Peer assessment

Share your finished account with another student. Discuss the following questions:

- Which bits of your writing do you think are most effective and why?
- Did you use a variety of sentences?
- If you were to redraft your work, what would you do differently?

#### Summary checklist

- I can use language to engage listeners in a spoken account.
- I can identify and understand implicit information in a text.
- I can use different sentence types to write an interesting account.

#### 1.3 Train trouble

clause: a group

Remember that the language and style of written accounts spoken accounts, so think carefully about the way you phrase your writing. For example, people often do not speak in although you can hear where ideas

start and end, but you must

always write in full

1 Adventure

#### > 1.4 A hard journey

- · look for explicit and implicit meanings in poetry
- explore how poets use language features for effect
- · learn how to write an analysis of a poem.

#### Getting started

Some people and some poems describe life as a journey. In pairs, discuss what life has in common with a journey. How could life be described as an adventure?

#### 'Hard is the Journey'

Read the following poem by Li Po, an 8th century Chinese poet.

Jade dishes of rare meats, costing more thousands,

I lay my chopsticks down, no more can banquet, I draw my sword and stare

Ice bars my way to cross the Yellow River, Snows from dark skies to

wildly about me:

the T'ai-hang mountains!

At peace I drop a hook into a brooklet,

vessels: hollow

containers

jade: a hard,

green stone

a small stream

a feast

At once I'm in a boat

(Hard is the journey, Hard is the journey, So many turnings, And now where am I?)

So when a breeze breaks bringing fair weather,

cross the blue oceans!

Brighter Thinking **Better Learning** 



BASE (aged 4-5 years)





# **BASE** 4-5

- Teacher led
- Story based assessment
- 1-1 format
- Literacy, numeracy,
   communication and emotional development
- Detailed reporting





InCAS (aged 5-11 years)





# InCAS 5-11

- Computer adaptive test
- Independent no teacher input
- Age equivalent scores
- Detailed reporting
- Reading, spelling, maths, developed ability





MidYIS (aged 11-14 years)





# MidYIS 11-14

- Vocabulary, maths, non-verbal ability and skills
- Baseline data and value added scores
- Identifies likely grade outcomes at O Level & Cambridge IGCSE<sup>TM</sup>
- Detailed reporting





What the reports show – a rich source of diagnostic data for schools and teachers



#### **BASE**

Pupil report
Class report
Question level report (all pupils)
Standardised scores
Interactive reports
Parent report

#### **InCAS**

Age equivalences
Ability profiles
Cohort Profiles
Pupil Progress charts
Standardised scores

#### **MidYIS**

Baseline
Standardised scores
Ability profiles
Cohort profiles

**Predictive** 

Predicted grades

Chances graphs (student and subject)

#### Value added

Student level

Table of achieved grades

Subject level

Scatter graphs

Standardised residuals

SPC (statistical process control charts)





## The purpose and value of CEM Baseline

Assessment for learning - baseline





- A measure of a student's skills and aptitude (developed ability) at a given moment in time
- Not a label for life a baseline for measuring progress later on
- A broad measure of knowledge not dependent upon an academic curriculum
- It saves time
- Highlights strengths and weaknesses
- Develop teaching and learning plans
- Inclusive for all
- The computerised tests are adaptive. In this way stress is reduced and no time is wasted. No two students will answer exactly the same set of questions.





## Why choose Cambridge?





- Complete alignment with Cambridge International
- Integrated resources, professional development and assessment
- Resources developed to support effective pedagogy
- A set of fully harmonised resources
- ✓ A range of print and digital resources to meet all your needs
- Comprehensive teaching support, including downloadable differentiation and language worksheets, tests and answers







# Thank you

Sales rep details go here

