

Cambridge Primary International English



2nd Edition

Mathematics 2nd Edition

Brochures





Scan here to access the MCE **Cambridge Primary International English** website!

MCE Cambridge Primary International English **Brochure**

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Beyond Basics, Reimagine Education

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

Marshall Cavendish Education Cambridge Primary International English

The Marshall Cavendish Education (MCE) Cambridge Primary International English series is aligned to the new Cambridge Primary English as a Second Language curriculum framework (0057). The series combines tried-and-tested methodologies alongside more recent practices, placing stories at the heart of the learning.

The stories and texts spark learner's curiosity, reduce learning anxiety, motivate learners to learn, provide context for their learning and ensure that language practice is meaningful. The many stories and non-fiction tests in the series are supported by rich visuals, to captivate learner's interest and to support understanding.

The series follows an active learning approach, with plentiful opportunities for singing, rhymes, role play and projects. The series includes a range of supporting resources customisable for both online and face-to-face learning, to consistently deliver outstanding learning and teaching experiences.



Product Architecture

MCE CAMBRIDGE PRIMARY INTERNATIONAL ENGLISH

ADDITIONAL DIGITAL RESOURCES*

o Student's Book

• Annotatable Enhanced eBooks (with animated stories/texts, songs, rhymes and other listening resources)

O Activity Book

Annotatable eBooks

o Digital Teacher's Guide (Editable)

- Games Bank for warm-up/cool down
- Photocopiable Blackline Masters to support extra activities
- Quizzes for ongoing formative assessment

*These resources will not go through the Cambridge International endorsement process.

Why choose MCE Cambridge Primary International English?

- Adopts an active approach, with language input coming through stories, texts, songs, and rhymes to keep learners motivated and fully engaged
- Provides plentiful, contextualised, and meaningful practice of vocabulary, grammar, and language skills

Incorporates Social and Emotional Learning (SEL) and values with opportunities for learners to reflect, give opinions and preferences, and share ideas or experiences

- Supports teachers extensively with a digital suite and a wide range of resources to support hybrid learning, and with embedded professional development in the Teacher's Guide
- Contains Marker Recognition Technology embedded within the series

What about that?

Well, on with the sock earing my kit but.. I'm missing one boot Oh no where is it?

Adopts an Active Approach, with Language Input Through Stories, Texts, Songs, and Rhymes to Keep **Learners Motivated and Fully Engaged**

In the series, each unit has three parts (A, B, C) which look at a different aspect of the theme. There are five lessons in each part. Lesson 1 introduces the theme and the language focus through a highly illustrated 'input text'. This input text can be a story, non-fiction text, song, poem, or rhyme.

For maximum visual appeal, the text is given plenty of space – covering 2 to 3 pages. This is unique to the MCE Cambridge Primary International English series. Some of these Lesson 1 texts are also offered as an animation, providing additional enjoyment and an opportunity for multi-modal input.



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MCE Cambridge Primary International English Student's Book Stage 3

Provides Plentiful, Contextualised and Meaningful Practice of Vocabulary, Grammar, and Language Skills



MCE CAMBRIDGE PRIMARY INTERNATIONAL ENGLISH

Lesson 3: Use of English

1 Make up sentences about the pictures.



2 Pretend you're one of the children in the pictures. Make sentences.



- 3 Listen to your classmates. Guess who they are.
- 4 Read 'My school uniform design' again. Do these actions.
 - clap when you read this or these
 - tap when you read one
 - snap your fingers when you read mine

Mascots

Practice is **active and communicative**. It is showcased on the page by the appealing mascots.

Revisiting Lesson 1

Learners revisit the Lesson 1 story or text in each of the subsequent lessons (2-5). This **reinforces understanding**, **builds confidence** and **motivation**.

Lesson 4: Writing

- 1 Read 'Making clothes with colour' again. What questions does Josh ask when he starts a new design?
- 2 Design a new clothes item.

A Plan

- Decide what kind of clothes.
- Answer Josh's questions.
- .

B Write

C Check

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 Check your sentences.

- Make a drawing of the clothes.
 Use colour and patterns.
- Look at 'My school uniform design' again
 - How does Millie talk about her designs?
 - This is my...
 - It's (colour). It's got a... pattern. You can wear it at / in (place or weather).
 - fou can wear it at 7 in (place or weather).
 - It's (your opinion: nice, great, warm, fun, ...).





D Complete

- Write a neat copy of your sentences. Add labels to your drawing.
- Practise presenting your design.

The learning throughout the unit *relates back* to the input text in Lesson 1.



Playing games together is good fun.

What do you do when

you play games?

Incorporates Social and Emotional Learning (SEL) and Values with Opportunities for Learners to Reflect, Give Opinions and Preferences, and Share Ideas or Experiences

- Follow the rules.
- Don't cheat!
- Always try and win.
- Have fun!
- Try to get better.

Colours mean different things in different cultures. What do they mean in your country?

SEL Mascots

On the Student Book pages, the SEL mascots, Lara and Leo, share interesting and important information, and ask questions to start learners on their journey to becoming *global citizens*.

Learners become aware of their own culture and respect other cultures too. They have the opportunity for **reflection**, and for **sharing their own ideas and experiences**.

This series provides materials for young learners to learn the language and *inculcate life values*.



v	/hat are they doing?' again for some ideas.			
fre	What are five e-time activities ou like to do?	L		
2 M fr	ake a poster about your five favourite ee-time activities.	Le 1	esson 4: Writing Read. Why is it good to play games? Playing is fun. It helps us to rel	ax and unwind.
	 Will it have pictures? What colours will you use? What will you write? 		Playing teaches us how to wind person who has not won. It tea in a good way. Playing keeps our body and mir	and how to be kind to the ches us how to accept losing nd active.
	↓	2	Complete the chart about	vourself
	B Write • Write your list in your natebook	-	Why I like to play	What I like to play
c	Check • Check your writing. Check your writing.			
			How playing makes me feel	What I learn from playing
L	esson 2: Listening and vocabulary			
L. 1	esson 2: Listening and vocabulary Choose a game you like to play. Write			
L. 1	esson 2: Listening and vocabulary Choose a game you like to play. Write some instructions.			
L4 1	esson 2: Listening and vocabulary Choose a game you like to play. Write some instructions. Name of game:			
L 1	esson 2: Listening and vocabulary Choose a game you like to play. Write some instructions. Name of game: Number of players:			
L 4 1	esson 2: Listening and vocabulary Choose a game you like to play. Write some instructions. Name of game:			
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MCE CAMBRIDGE PRIMARY INTERNATIONAL ENGLISH



Supports Teachers Extensively with a Digital Suite and Wide Range of Resources to Support Hybrid Learning, and with **Embedded Professional Development in the Teacher's Guide**



Lesson 1 Listening and reading (SB pp97–100, AB p61) Warm-up Play 1 spy' from the Games bank as a helpful review of nouns

Lesson

Student's Book Q1 (2Lm.01, 2Ld.03, 2Ld.04, 2Sc.01, 2Rm.01, 2Rm.02, 2Rd.01, 2Rd.02, 2Rd.04) Tell the learners about a time when you lost something. Say what it was, where you looked for it and where you

Tell the learners about a time when you loss something. Say what it was, whene you looks for it and where you found it. (Personvillaria) a topic helps learners relate to it and understand it befine?) Say 'How you but something? Think of three things. Give learners some time to think. Say: Tel your partner, Say 'How you but something? Think of three things also the time traje tay bar? Say: Coon your book, please, Look at the pictures. What do the boy loos? (a soch) [62] Say: Listen. Pairt at the words. Play tuck 62. Learners listen and follow along with ther finger. Then play the track again and sak learners to need along.

Track 62 (See Student's Book pages 97–99)

Student's Book Q2 (2Rd.02) Read the questions one-by-one with the learners. Allow them to aposis to their partner to oheck their answers. Then choose learners to tell the class the answers. (Answers: a He is piaying in a football match b red, c one socid, d cupboard, drawer, under the bed, on the floor, e his site)

Store, e his state) Achidy Book CI (21.403, 21.4.94, 21.7.61) (E3) Say, Road and Iliains to the Say sock? again. Which patter comes Barry Whethe the number. (Answers: 2, 4, 6, 5, 1, 2) Achidy Book CJ (2008) 32, 284.42, 284.64) Say, Who says Z. Down Mark When learners are sentencies. Who says them Say Says Says Says Says (Answers: Nov. any them Are your annexes: come?) (Answers: Nov. any them Are your annexes: come?) (Answers: Nov. any theol. my sock. Third Barry Mary Says 2007). wearing your sock.)

wearing your sock.) Bredent's Book C3 (25-.02, 20,67) Ask: Cid you like boom? What like for grown is it? Last the adjectives in C3, saying it it [add? before each one. Learners can of a raise fine hand if they think it's one of these words. Ask: Why do you think its [add? (Anower: flum;)), happay Student's Book C4 (2R.02) Par The learners. Asign each pairs one of the words in C3. Say, How many we thand? Look at the poem. Find and count flem.

(Answers: colours = 2, numbers = 2, characters = 2)

 $\begin{array}{l} (\text{Answert: cclours = 2, numbers = 2, chwacters = 2) \\ \text{Studen's Book (63 (25.cb, 47.cb, 47.cb)) \\ \text{Say, This is a poen. What's a poen? What does a poon have? (which lines, highth mail often hymes) point have? (which lines, highth mail often hymes) (where, school) Say: Cock at the rest of the poen. What's (16.cb, cbc) (25.cc) (act har rest of the poen. What's (16.cb) (1$

Student's Book Q6 (2Sc.01, 2Sc.02, 2So.01, 2Ug.02, 2Ug.07, 2Ug.08)

2Ug.07, 2Ug.08) Say: Repeat after me. Read the phrases as expressively as you can. Say: Have you heard these words before? When did you hear them? Who said them? Why? Ask: When did you have them? Who said them? Why? Albe? When did you have them? Who said them? Why? Albe? When did you have the solve span? Can we add these phrases? When can you any them to the boy? Als learns to bitwis of anothing they are good at. Choose one or two learns is hall you. Praise them uing one of the phrases. Say: Now it a your fam. Tail your partner. Your partner says one of have phrases. For it all the phrases in the book. Learners tell their partner something they can do, and there partner praise them. As an alteradow, this can become a mingling activity, Is a mingling activity, learners stand and rowe anound the dassoom. They find a partner, space to them, then find a new partner.

Itemmes stand and move around the desistorom. They find a painter, positive to them, then find a new pariner. Wrap-up Student's Book 27 (SEL focus) (25.01, 25.02, 22.03, 32.03, 20.0

Homework Ask learners to learn one of the verses of the poem 'My sockf'. Say that they will recite their verse (in groups) in

Ensure that you allocate one verse per group of lear to memorise so that the whole poem can be recited.

Annotatable eBooks

Our packages provide print and digital* Student Book and Activity Book to cater for both online and physical classroom.

Annotatable eBooks* are enhanced with links to digital content to support hybrid learning.

Lesson Notes

The clear, detailed, and easy-tounderstand lesson notes contain scripted question prompts, ideas for additional activities, and quidance on differentiation.

School to home notes

Week 1

Dear Parent / Guardian Welcome back to school This term your child will continue their English journey. We will read, listen, speak and wire to topics connected to school, community and the weather. We will talk about what it means to be a good learner and how to be part of a community. We hope that learners will be able to recognise the joy in learning English through songs, stories, drama, crafts and games. I hope you'll be able to join us and support your child learning English.

Dear Parent / Guardian This week your child will talk about school. Schools today are often quize different to schools when w were younger. Your child is probably interceted to hear about what you did when you were at school. What the same? What's changed? Vocabulary to this week: class. unform, playground, foor, paint, teacher, backpack, breaktime, breakfast time, dream, classmate, lesson, classroom, pens.

Neek 3

Dear Parent / Guardian This week your child is talking about the subjects they study at school. Taik about school and school subjects with your child. What is your child's favourite subject? What was your favourite subject at school? Why did you like in? Vocabulary for this week notabook; crayons, ruler, laptop, gitter, glue, computer, Matha, Science, Art, Music, Citizenship/Social Studies, TV, side, football.

Dear Parent / Guardian This week we're stil taiking about school. We'il also review words for colours and we'il taik about our favurile subjects. We'i play some guessing games. Perhaps you could ask your child to show you the colour guessing game we'li play, and maybe play it with them. Vocabulary for this week: please, thank you, good, bad, same, different.

Week 5

Deer Parent / Guardian This week your child will talk about their community in their English class. When you're out and about with your child, whether you're walking, on public transport or in a car, why den't you point out some the places you pass? Vocabulary for this week sports centre, park, fire station, police station, hospital, shop, library, supermarket, restaurant, cinema, mall, funny, sad, happy, pretend, real, glasses, cule.

School-to-Home Notes

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Photocopiable week-by-week 'Schoolto-home notes' enables the *learning to be* supported by family members too.

*These resources will not go through the Cambridge International endorsement process.



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MCE CAMBRIDGE PRIMARY INTERNATIONAL ENGLISH

	Do you think of	ther people like	Millie's uniform	designs?		
	Look at the chart. What is other people's opinion of Millie's designs, do you thin yours?			u think? Wha		
BLM 10: Story report		They need more work.	They're ok.	They look nice.	They're very good.	They're fantastic!
Title:	Teacher					
Who are the characters?	Mums and dads					
Where does the story happen?	Millie's friends					
	You					
Draw your favourite part of the story.						
	(The	e BLMs (also inc	lude	

ADDITIONAL RESOURCES IN TEACHER'S GUIDE

- Start/End-of-term **Supplementary Lessons**, adding the flexibility to extend the programme across a longer school term
- **Games Bank** containing easy-to-use warm-ups/cool-downs for use at the start or end of the lesson
- Quizzes for ongoing formative assessment
- *Lyrics* of songs and rhymes
- **Strategies for Effective Teaching** to support ongoing professional development

The extensive amount of teacher support in the programme ensures that teachers can deliver a fun, playful and effective lesson, every time.

Marker Recognition Technology Embedded Within The Series*





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Other Products

Cambridge IGCSE[™] English as a Second Language

Grade 10 – 11 | Age 15 – 17

The Marshall Cavendish Education Cambridge IGCSE[™] English as a Second Language (2nd Edition) Series is designed to support learners studying the full Cambridge IGCSE and IGCSE (9-1) English as a Second Language syllabuses (0510/0511/0991/0993) for examination from 2024.

The series focuses on building communicative competence and linking language to life. The units are carefully structured according to the various functions that we use language for, such as informing, explaining, persuading and giving opinions. By learning language in this way, students will build strong communication skills, based around real world contexts that they can relate to.



Scan here to download the brochure and learn more!

Scan QR code to visit our Cambridge International website:







Scan here to access the MCE Cambridge Primary Science (2nd Edition) website!

Cambridge Primary Science 2nd Edition



Beyond Basics, Reimagine Education

Marshall Cavendish Education Cambridge Primary Science (2nd Edition)

Marshall Cavendish Education (MCE) Cambridge Primary Science (2nd Edition) series fulfils the new Cambridge Primary Science curriculum framework (0097). The series is designed to help young learners build a sound understanding of scientific concepts and to become young scientists who make a difference to the world with their knowledge and skills.

Within this series, you will find Singapore's tried-and-tested methodologies embodied in high-quality resources that support the Cambridge Primary Science curriculum framework. This programme includes a range of supporting resources, customisable for both online and face-to-face learning, in order to consistently deliver outstanding learning and teaching experiences.

The 2nd Edition has retained the active learning approach, easy-to-understand language, and rich visuals. It builds on the previous edition by incorporating the new Thinking and Working Scientifically strand which aims to nurture students into active learners who understand the role science plays in the world around them.



Product Architecture

Additional Digital Resources*

o Student's Book

- Annotatable Enhanced eBooks (Tagged with interactive digital resources)
- o Activity Book
 - Annotatable eBooks

o Digital Teacher's Guide

- Scheme of Work (Editable)
- Lesson Plans (Editable)
- Teaching Ideas and Strategies (Editable)
- Suggested Answers for Student's Book and Activity Book
- **o Homework Worksheets (Editable)**
- o Lesson PowerPoint Slides (Editable)
- o Depository of Licensed Videos

*These resources will not go through the Cambridge International endorsement process.

Why choose MCE Cambridge Primary Science (2nd Edition)?

- Offers the best of both worlds to equip students for successful and meaningful living in the 21st century
- Provides effective support and strategies for English as a Second Language (ESL)
 learners and educators
- Promotes relatability through real-life contexts
- Delivers a fun and engaging hybrid learning experience

Offers the Best of Both Worlds to Equip Students for Successful and Meaningful Living in the 21st Century

This series combines Cambridge International's global standard with Singapore's tried-and-tested methodologies. It has retained the active learning approach and incorporated the new Thinking and Working Scientifically strand. This will help to develop learners' scientific skills, allowing them to master 21st century skills such as critical and creative thinking skills.

Well-crafted questions embedded within the content and investigations support scientific inquiry. This will nurture active learners who think and work like scientists. This series also provides opportunities for self-directed learning and reflective thinking.

Chapter Opener CHAPTER Inquiry questions, which require direct **Movement of Earth** answers, opinions, or explanations, are used to *trigger discussions* pertaining to the topic and encourage deeper *thinking* related to the concepts. In this section, I will... A list of learning outcomes helps learners to be *aware of their learning pathway and success* criteria for each section. Look at the picture You have learnt that Earth spins on its axis. Did you know that Earth ner, autumn and also moves in other ways? Seasons such as spring, sum **Flowers** winter are caused by the movement of Earth How does that happen? Choose two seasons and write one word to describe each. In this section, I will learn that not all plants produce flowers identify parts of a flower describe the functions of some parts of a flower sort living things by observation complete a key based on differences that can be observed learn that a model shows the important features of an object 158 **Thinking Cap Thinking cap** What is inside a flower? Question prompts encourage learners to *reflect and think* about what they already know. Let's Explore! allowing educators to evaluate their prior knowledge. Learners Do all plants have flowers? can exercise higher-order thinking In aroups, take a walk around the and model reflective behaviour. school garden or a nearby garden. I. Ask yourselves the following like a Cambridge learner. questions: What do you look out for to tell if something is a plant? Let's Explore! What are some of the common parts that all plants have? Hands-on activities, which can include • Do all plants have flowers? group or peer discussion, are easily 2. Find out the names of the conducted in class, allowing learners plants in the garden from your to *explore concepts* before learning no teacher. Complete the key to the facts and *build 2Ist century* sort the plants into two groups *skills*, such as communication and collaboration. 4

Let'sleam

What Are Gaseous Substances?

In Stage 3, you have learnt that substances can exist as solids, liquids and gases. Substances that are gases are said to be in the **gaseous** state.

When you squeeze a sponge under water, you will observe bubbles. The bubbles are made of air. The air around us is a mixture of gases such as nitrogen, axygen, and small traces of carbon dioxide, water vapour and hydrogen. These substances exist as gases at **room temperature**, which is the temperature of our surroundings.



Let's Learn

Apart from explanation of the key points, *inquiry questions* are embedded within the main text to *promote thinking and discussion*.

The air you blow into a balloon is a mixture of gases.

Can you name other substances that are gases at room temperature?

Word Boost

Problem-based Learning

These activities will encourage learners to *think critically and creatively* for possible solutions to *real-life problems* that affect them, their community, or society.



Problem=basedLearning
 Help pollinate the plants!



Many of the plants grown for food depend on pollination. Honeybees play an important role in pollinating the flowers, but their population is reducing. We need to find other ways to pollinate flowers so we can produce enough food.

- Work in groups. Design a machine that can be used for pollination. It could be hand-powered or wind-powered, or use another way to transfer pollen.
- 2. List down a scientific question that your group wishes to investigate in order for you to understand the pollination process better. Select the appropriate scientific enquiry to use to find the answer.
- **3.** Which type of scientific enquiry has your group chosen to use? Why?
- 4. Present your idea or model to the class.

Can you think of any other ways we can help pollinate the flowers?

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Science at Work 🥵

The Italian astronomer Galileo discovered four of Jupiter's moons in 1610.



Io, Europa, Ganymede and Callisto were the first four moons found by Galileo. More than 70 moons of Jupiter have been discovered over the years, and over 50 of them have been named. There may also be more moons that have not been discovered yet.

Carry out research to find out how our understanding and knowledge of Jupiter's moons have changed over time. Create a timeline to show what you have found.

Science at Work

Provides information to relate the topic to science careers or everyday life. *Research questions* are included for *further exploration to extend learning*.

🗕 🗕 🕂 Tech Talk! 🦉



Many scientists look at adaptations of animals to come up with new inventions. There is a type of glue that works underwater. This glue is modelled after how mussels have adapted to living underwater. The glue is made to work well in water so that it can be used to fix cracks in aquariums and swimming pool floors.

Find out what other useful products have been modelled after adaptations that plants and animals have.

Check Your Learning

Describe two adaptations of plants and animals in hot and cold environments.



Tick (\checkmark) to show what you can do.

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I can describe how plants and animals are adapted to different environments.

I can use science to support my points of view in discussions.



Tech Talk!

Features modern technology that can be used to solve issues related to the topic and includes a *critical thinking question* for learners to *ponder and conduct research*.

Check Your Learning

Formative assessment questions at the end of a section help to check learners' understanding.

l Can

A list of statements which summarise what learners should know at the end of a section. Learners can *check on their progress* through this *reflective exercise*.

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<complex-block></complex-block>	Worksneet	The ovary develops into a fruit after fertilisation.		Which process is it?	1 10 A
<complex-block></complex-block>	End-of-chapter	Seeds are dispersed only by animals.		Tick (✔) the correct answer.	
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<text><text><text><section-header><text><text><text><text></text></text></text></text></section-header></text></text></text>	Oil spills are cleaned up us help to remove the oil, whili oil to reduce its harmful Container Water Spoon Vegetable oil Feather Cotton balls Dishwashing liquid Method 1 Fill half of a container w Record what you obser	ing various methods. Some methods e others break up the layer of ret. The thouse of the layer of	A vo han lec pr the TI de cer	ariety of engaging activitie ds-on exercises and resect anners to <i>apply their know</i> tractical scenarios and end the to think and work scient and the scientific skills, as we atury skills such as critical creativity, and communica	es such as arch allow vledge in courage ntifically. earners vell as 21 st l thinking, ation.
 Record what you observed. Based on your observations, how do oil spills affect in the most energy for the race? Circle the correct answer. Indindh is preparing to run a marathon. Which of these would provide her with the most energy for the race? Circle the correct answer. Indindh is preparing to run a marathon. Which of these would provide her with the most energy for the race? Circle the correct answer. Indindh is preparing to run a marathon. Which of these would provide her with the most energy for the race? Circle the correct answer. Indindh is preparing to run a marathon. Which of these would provide her with the most energy for the race? Circle the correct answer. Indindh is preparing to run a marathon. Which of these would provide her with a varieity of questions including application-based and structured questions, which reinforce learning, and facilitate assessment for learning. Ind most fact encreases when the couple of the race of the record det. This can cause problems with a concept of the race of the race of the record of the race of th	2 Put a feather into the c what the oil has done to	ily water. Then remove the feather and obser it.	ve		
 In the problem of the p	a Record what you ob	served. 🏓 🕨	et's Review		
With the most energy for the roce curve the correct drawer. Uter 's Review Wrap up each chapter with a variety of questions including application-based and structured questions, which reinforce learning and facilitate assessment for learning. Image: the image the role of the roce o			Aminah is preparing to run a r	narathon. Which of these would provide her	
Let's Review Wrap up each chapter with a variety of questions including application-based and structured questions, which reinforce learning and facilitate assessment for learning.			egg water	pasta Ogge	
Wrap up each chapter diet problem with a variety of diet not much energy questions including application-based and too much fat • structured questions, which reinforce learning not enough protein • tooth decay not enough carbohydrate • poor growth 3 Erin wants to eat cupcokes after every meal. Give two reasons why this could be unhealthy for Erin.	Let's Re	eview	Some people do not have a ba their health.	lanced diet. This can cause problems with	
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which reinforce learning and facilitate assessment for learning. not enough carbohydrate • • poor growth 3 Erin wants to eat cupcakes after every meal. Give two reasons why this could be unhealthy for Erin.	structured	uestions.	not enough protein	tooth decay	
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could be unhealthy for Erin.	for lear	ning. / 3	Erin wants to eat cupcakes af	er every meal. Give two reasons why this	
			could be unhealthy for Erin.		

Provides Effective Support and Strategies for ESL Learners and Educators

ESL learners and educators are well-supported in their learning and teaching through this series. With the right language pitch and language support features such as Science Words and Word Boost, ESL learners can easily understand the content and grasp concepts quickly. Through this series, they can expand their vocabulary and are guided to apply them in their answers. Vibrant visuals are used to simplify complex concepts by helping learners visualise them, promoting a better understanding.

ESL educators will receive support from the effective strategies and suggested ideas through the lesson plans. The overall content design and scaffolding in the series ensure that they can deliver outstanding teaching and learning.

Chapter Opener CHAPTER Pollution A simple and fun language-based *writing exercise*, such as writing words or a sentence, can be used to *capture interest* while introducing the chapter. What Are the Parts of a Flower? Flowers are the parts of a plant that help it reproduce. They are the reproductive parts of the plant. The petals of a flower surround its male and female parts. The **stamen** of the flower includes the male parts. The **carpel** includes the female parts. Each part of the flower has a different function. Look at the pictur The labelled diagram below is a model of a flower. As some flowers look Why does the turtle have a plastic bag around its neck? Recall what you have learnt about how human activities different from others, a model helps us understand the common features of flowers the turtle affected by human activities in this case? stamer carpel . Write a word to describe the environment in the picture filament anther stiama stvle ovarv Let's Learn Simple, concise sentences are used to explain concepts in an *inviting tone* and *ensure easy* understanding of the content. Scientific keywords are presented in bold for emphasis and support learners in scientific literacy. ovule Vibrant and Word Boost How do you think **Rich Visuals** surround non-flowering plants reproduce function 6 Vibrant and rich visual representations are used in Word Boost explanations as they *simplify* complex concepts and help Non-scientific words are provided with definitions in the learners visualise them. Teacher's Guide to support ESL learners in *expanding* their vocabulary and understanding the content.

Science Words

anther the male part of a flower that contains pollen grains

C **carpel** the part of a flower that contains the female parts

fertilisation the process in which the pollen and the egg join

flowering plants plants that bear flower

flowers parts of a flowering plant that help it reproduce

G germination the development of a plant from a seed

the stages of growth and development in the life of a living thing

N non-flowering plants plants that do not bear flower

Activity 5C Changing Solvents

Skill: Reach a scientific conclusion from my results

Materials:

Honey Two beakers 10 g of sugar Two teaspoor Cooking oil

Pour IOO ml of honey into one of the beakers.

stirred 20 time:

Sugar can dissolve in

2 Put IO g of sugar into the beaker of honey. Using the teaspoon, stir 20 times

3 Repeat steps I and 2, this time using cooking oil as the solvent.

4 Observe if there is any sugar remaining after each mixture is

Using your observations, complete the sentence below to make conclusion for this investigation.

Method

In Activity 5B, you found out that sugar can dissolve in In this activity, you will find out if sugar can dissolve in

in othe

0 ovary the female part of a flower that contains ovules

P

petals parts of a flower that usually have bright colours

pollination the transfer of pollen from the anther of a flower to the stigma of the same or a different flower

seeds small, hard parts of a plant from which new plants grow

seed dispersal the scattering of seeds away from the parent plant

stamen the part of a flower that contains the male parts

stigma the female part of a flower where pollen is received

temperature a measure of how hot or cold something is

Fill in the blanks. Use the following words.

Sounds are made when objects ids can travel through Т

Pitch

Τ

nds on the . of vibratio

____ - pitched sou de when an objec

- pitched sounds hen an object

decibels gases high light liquids loud low quickly quiet slowly solids soundmeter speed strength strong vibrate

Sounds

Т

Let's Map It!

E.J

62

21

Т

sounds are m

____ vibrations.

. sounds are made

vibrations

Vo

Volume depends on the of vibrations

It can be measured using

The unit measure is (dB).

by_

by

Science **Words**

The meanings of the scientific keywords are provided to build scientific literacy.



Word Whizz

Help Eddy solve the puzzle! Use the clues to complete the crossword puzzle



Across I A layer of gas that surrounds the Earth 6 The continuous movement of water from the Earth's surface to the sky and back to the Earth's surface (two words)

 Down

 2
 Water that falls from clouds onto the Earth, especially as rain or snow

 3
 Water that has no dissolved substances in it (two words)

 4
 Agas that is found in the largest amount in the atmosphere

 5
 Agas found in the atmosphere that is necessary for survival

Activity Worksheet

ESL-friendly worksheets include questions to help learners *practise* writing answers.

Let's Map It!

Concept maps with keywords for learners to fill in serve as a tool to *revise key concepts* and consolidate learning.



Fun language-based exercises, such as crossword puzzles, help reinforce keywords and hone scientific literacy.

9

CHAPTER 2 THE DIGESTIVE SYSTEM

*Chapter Learning Objectives •

*Chapter Learning Objectives 5Bp.01 Know that animals, including humans, need an adequate, balanced diet in order to be healthy. 5Bs.04 Describe the human digestive system, including the functions of the organs involved (limited to mouth, oesophagus, stomach, small intestine, large intestine and anus), and know that many vertebrates have a similar digestive system. 5TWSm.01 Know that a model presents an object, process or idea in a way that shows some of the important features. 5TWSm.02 Use models, including diagrams, to represent and describe scientific phenomena and ideas. 5TWSc.01 Sort, group and classify objects, materials and living things through testing, observation and using secondary information. 5TWSc.03 Collect and record observations and/or measurements in tables and diagrams appropriate to the type of scientific enquiry. 5TWSc.03 Collect and record observations and/or measurements in tables and diagrams appropriate to the type of scientific enquiry. 5TWSc.03 Use science to support points when discussing issues, situations or actions.

Expected student prior knowledge

Before starting this chapter, students are expected to:

 know how to identify and describe the functions of some important organs in humans (stomach and intestine).
 know how to describe food chains, that animals can eat plants and other animals.

* The information in this section is taken from the Cambridge Primary Science curriculum framework (0097) from 2020. You should always re of your students' examination to confirm the details and for more information. Visit www.cambridgeinternational.org/org/mary to find out more.

Learning **Objectives**

Curriculum framework codes are indicated to let educators know which learning objectives from the Cambridge curriculum framework will be covered in the chapter.

Expected Student Prior Knowledge

A list of what learners should know to understand the chapter well.

Science Words to Highlight

Educators are encouraged to highlight the scientific words to learners as this *builds scientific* literacy.

Common **Misconceptions**

Promotes assessment for *learning* and serves as an easy reference for educators to highlight and correct commonly misunderstood concepts.

Lesson Plan

ESL and non-specialist educators can easily understand the *content* as the lesson plans are written using simple language. The step-by-step lesson plans allow educators to *deliver* engaging lessons effectively and conveniently. They provide guidance to conduct activities and contain suggested questions and answers to support lesson delivery.

Reproduction in Flowering Plants

Number of Periods: 3

*Section Learning Objectives 5Bp.02 Know the stages in the life cycle of a flowering plant. 5Bp.03 Describe how flowering plants reproduce by pollination, fruit and seed production, and seed dispersal. 5TWSm.01 Know that a model presents an object, process or idea in a way that shows some of the important features. 5TWSm.02 Use models, including diagrams, to represent and describe scientific phenomena and ideas. 5TWSc.01 Sort, group and classify objects, materials and living through testing, observation and using recorders information.

secondary information. Science Words to Highlight • fertilisation, life cycle, pollination, seed dispersal Common Misconceptions

Misconception 1: Plants produce seeds on their own (pollination or fertilisation is not needed). Correct concept: Pollination and fertilisation need to take place before seed formation can happen. How to address: Ask: Have you heard of pollination and fertilisation? What is pollination and what is fertilisation? Explain to students that pollination is the transfer of the pollen from the male part to the female part of a flower, while fertilisation happens when the pollen and egg join. Some students may think that pollination and fertilisation refer to the same process. Point out that these are different processes, and both are necessary before seeds are formed.

Misconception 2: Al seeds from the same plant have the same size and shape. Correct concept: Seeds from the same plant may come in a variety of sizes and shapes. How to address: Ask: Have you paid attention to the seeds from the apple that you eat? Do they all have the same size and shape? Explain to students that many factors come into play during fertilisation, which can affect the size or even shape of every single seed produced. Point out that this is why we can sometimes notice that seeds may be of various sizes and shapes, even if the seeds come from the same fruit.

Lesson Plan

The lesson plan below will be available online for teachers to edit and customise according to their requirements. Lesson 3 (80 min)

Lesson Trigger and Pre-evaluation (10 min)	 Refer to Thinking Cap' on page 8 of the Student's Book, Display pictures of a real tree and a real seed on the board. Get students to observe the pictures on the board. Ask students to discuss how a large tree could grow from a tiny seed. (Expected answer: Students may refer to one or more stages in the process of germination. For example, roots will help absorb water and nutrients to help the seed grow into a small plant. Over time, the small plant grows into a tree as the stem of the plant grows and thickens.)
Activity (15 min)	 Refer to Let's Explorer on page 8 of the Student's Book. Get students to use the stickers at the back of the Student's Book, to show how a plant grows, (Expected answer: Picture of a seed → picture of a seed) → picture of a seed → picture of a seed → picture of a seed of the student's Book to student's Book. Ask: How do you think plants change as they grow? (Expected answer: As the seed grows into a seedling, the roots and stem(s) also develop and grow. The plant produces leaves that make food for the plant. Over time, the plant grows into a adult plants broduce flowers that can help them reproduce.) To support students in their sharing of ideas, you could write some of the science words you want them to use on the board, for example, 'seed', 'seedling', young plant' and 'tree'.

The information in this section is kiken from the Cambridge Primary Science curriculum framework (0097) from 2020. You should always refer to the appropriate curriculum framework document for the year of your students' examination to confirm the details and more information. Visit www.cambridgeniternational.org/primary to find out more. u nd for

Alternative Lesson Ideas for Trigger, Activities for Main Lesson and Wrap-up

Additional lesson ideas serve as an easy and convenient reference to support educators in learners' engagement. Suggested lesson trigger ideas involve various teaching strategies such as visual stimulus, which can be used to further engage learners.

Working with Parents

Suggested home-based activities serve as reference for educators to involve parents in supporting learning from home. This promotes self-directed learning and a schoolhome partnership.

Differentiation

Activity ideas *provide* support and challenge *learners* during lessons, allowing educators to assess learners' understanding.

Alternative Lesson Trigger Ideas

 Engage students by asking them to imagine they are an Inuit who has found a seed in the snow. Invite students to discuss if the seed will grow if it was planted in the snow. Then, ask students to imagine they are living in the hottest desert in the world. Ask: Will the seed grow in this desert?
 Alternative Activity Ideas for Main Lesson

- Anternative Activity Ideas for Main Lesson
 Get students to observe two pictures. Picture A shows a pot with healthy leaves by a window sill on a sunny day. Picture B shows a pot with only soil and a seed placed in the refrigerator. Invite students to discuss their observations and explain why the seed in picture B did not germinate. Emphasise that a suitable temperature is required for plants to germinate. (Expected answer: The seed in picture B did not germinate because it is placed in a cold place. Seeds require warmth for germination.)
 Alternative Lesson Wrap-up Ideas
 List the stores involved in germination on the beard in an incorrect order. Activity is the seed in a cold place.
- · List the stages involved in germination on the board, in an incorrect order. Ask students to rearrange the stages of germination in the correct order.

of germination in the correct orcer. Extended Learning Ideas • Students can find out about other methods of growing plants, such as hydroponics and vertical crops. Ask: How do these types of plants obtain suitable conditions they need to grow? Cet students to compare these methods to that of traditional farming and discuss how the methods differ. (Expected answer: Answers may vary. For example, soil is not used in hydroponics, yet the plants are being effectively grown in water. The nutrients required for plant growth are found in the water solution used.) Machine with Deconte

Working with Parents

orking with Parents Parents can work with their child to germinate a seed in their own home. Parents can guide their child to discuss what materials are needed and the conditions that are necessary for germination, which includes assessing the best location to place the seed preparation in their home Differentiation

Differentiation Activities that provide challenge: Inform students that seeds have an outer coating. Ask students to think about what characteristics seed coatings should have to cope with different conditions. (Expected answer: Answers may vary. A seed needs a hard coating to protect the seed when it is being transported from location to location, such as by an animal./ A seed needs to be thick or hard enough to prevent other organisms from entering.)

Activities that provide support: Provide a worksheet with sentences on the stages of germination in the correct order. Leave blanks in place of key words. Show students a list of the key words arranged in no particular order. Encourage students to fill in the blanks with the correct key word. Alternatively, students can be asked to describe the stages in sentences rather than just filling in the key words

Suggested **Answers**

Suggested answers for Student's Book and Activity Book *support* educators in assessment for learning.





er, <u>clouds</u> are for ses to form tiny es evaporates t

vater gained heat and evaporated to become water vapour. Upon a glass, the water vapour <u>condensed</u> to form tiny water droplets. V her, they fall back into the beaker, just like the <u>rain</u> that falls onto t

Thinking **Frames**

These *promote thinking* and consolidate learning, and can be used as indicated in the lesson plans.

Thinking Frame 2 - KWHL

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Promotes Relatability through Real-life Contexts

This series presents opportunities to learn science in context so learners will be able to understand the relevance of science in their daily lives. The practical applications allow learners to transfer knowledge and skills to everyday scenarios, which can boost their understanding and make learning science meaningful.

As the series includes multicultural references and photographs, it caters to the international audience.



Can Magnetic Force Act Over a Distance?

You discovered in the 'Let's Explore!' activity on page 123 that a magnet can attract an iron nail without touching it. Magnetic force can act over a distance between magnets, and between magnets and magnetic materials.



Magnetic force can act over a distance to attract the iron nails.

Tech Talk!

Showcases *real-life applications* by featuring modern technology, which learners may have encountered before, to *demonstrate the relevance of science in daily life*.





Maglev (magnetic levitation) trains can travel more than 400 kilometres per hour. The strong magnets between the train and the tracks repel each other, causing the train to 'float' above the tracks. Other magnets allow the trains to move at great speeds. Why is the distance between the 'floating' train and the tracks important? What could happen if it is too short or too long?

In this section, I will

- describe the processes of evaporation and condensation
- use a model to explain a process
- plan a fair test and identify the three types of variables
- choose equipment and use it properly during an investigation
- \cdot $\;$ describe risks in practical work and ways to minimise them $\;$
- use knowledge and understanding to make predictions
- decide when to repeat observations to get reliable results
- do practical work safely
- take measurements accurately
- create tables and diagrams to present the results of my observations when appropriate
- recognise the features of different scientific enquiries
- describe the use of science locally



Where did the water droplets come from?

You will need: • Small mirror

- I. Hold the mirror in front of your mouth.
- 2. Open your mouth and breathe out in front of the mirror.
- **3.** What do you observe? Give a possible reason for your observation.
- 4. Leave the mirror aside for a few minutes.
- 5. What do you observe now? Why?

Let's Explore!

In-class activities are based on real-life contexts so learners can *discover the relatability of the scenarios,* which will *enhance their understanding* as they learn facts. 125

Problem-based/Learning

When working in a group, take part actively. Encourage your group mates to share their ideas

How can we prevent wastage of water? Farmers need water to grow their plants. Many farmers depend on rainfall to water their fields. When there is not enough rainfall, many farms use artificial watering of fields. This is known as irrigation.

> Many fields use an irrigation system as shown in this picture. However, some irrigation systems can lead to wastage of water as the plants may not need so much water. You have been tasked to find ways to solve this problem.

- Work in groups. Start with asking a scientific question about irrigation that can be investigated. Select an appropriate scientific enquiry that you can use to find the answer to your question.
- 2. Design a method to irrigate fields without wasting water.
- Design a poster to present your ideas. Keep these questions in mind when designing the poster:
- (a) How will this system work?(b) Can it be easily set up and used?
- 4. Share your poster with the class.

Social and Emotional Learning

With an emphasis on the learners' Social and Emotional Learning, mascots will appear to encourage learners to *practise social and emotional etiquette* as they learn how to work with others and manage their emotions.

Problem-based Learning

Activities involving real-life problems which require learners to *apply their knowledge and skills* to *propose possible solutions*.

Look for some food items in your refrigerator. Using the food packaging as a source of information, find out which food group each of the food items belongs to. Sort the food items into the various food groups on a separate piece of paper.

The plate below shows how you can have a balanced diet.



Activity 9B Make a Water Cycle

Skills: Learn that a model shows the important features of a process and an idea, use a model and a diagram to illustrate and explain a scientific event and idea, use science to support my points of view in discussions



Materials: Mug Large plastic bowl Water Marker

Cling wrap String Lamp

Method

I Place the empty mug in the middle of the large plastic bowl.

2 Fill the bowl with water to the half-way mark. Use a marker to mark the water level in the bowl. Ensure that there is no water in the mug.

Activity Worksheet

Engaging hands-on activities provide opportunities to *demonstrate concepts* pertaining to the topic and allow learners to *transfer their knowledge to reallife contexts.*





Delivers a Fun and Engaging Hybrid Learning Experience

This series offers an exciting and engaging hybrid learning experience with its convenient and easy-to-use bank of digital resources. The eBooks allow annotations to be saved to capture submitted answers, in addition to the Student's Book that is tagged with interactive digital resources to enhance learning.

Spark excitement and fun learning in science lessons by engaging learners with vibrant visuals, videos, quizzes, and sticker activities. With both print and digital learning resources available to support online and face-to-face learning, this series delivers outstanding learning experiences.



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Annotatable eBooks*

Answers annotated in the eBooks can be saved and accessed by educators. The Student's eBooks contain digital resources tagged to the Watch feature which learners can access in their own time or through in-class activities. The flexibility in usage of digital resources enables hybrid teaching and learning.

Additional Digital Resources*

Digital teacher's resources, such as lesson PowerPoint slides and homework worksheets, will help educators **save time on lesson planning** and **effectively deliver exciting and fun science lessons**. They are editable, allowing educators to **customise and plan their lessons for the various learning needs**.

*These digital resources will not go through the Cambridge International endorsement process.

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Grade 7 - 9 | Age 13 - 15

Science Ahead is a comprehensive science programme for Stages 7, 8 and 9. The series uses the constructivist-inquiry approach to offer a learner-centred solution, helping learners acquire scientific concepts and skills. The curriculum content is structured using a spiral progression, allowing learners to revisit concepts and skills at different stages with increasing depth, thus ensuring a strong foundation.

The series makes use of vibrant photographs, clear infographics, inquiry questions, activities, and case studies to deliver an engaging and enjoyable science learning experience.

To find out more, scan here!





Grade 10-11 | Age 15-17

Marshall Cavendish Education Cambridge IGCSE[™] Physics, Chemistry and Biology are comprehensive two-year programmes designed to support learners with their study of the Cambridge IGCSE and IGCSE (9-1) Physics (0625/0972), Chemistry (0620/0971), and Biology (0610/0970) syllabuses.

Developed based on robust research, these series bring Science learning to life by focusing on real-life examples to which learners can relate. They are designed to excite and engage learners by piquing their curiosity in scientific concepts and promoting a deep understanding of topics. This is done by giving learners plenty of opportunities to practise learned skills, reflect on concepts, and share, discuss or journal what they have learnt.



To find ² out more, scan here!

The titles in this series are endorsed by Cambridge Assessment International Education to support the syllabus for examination from 2023.

Scan QR code to visit our Cambridge International website:







Scan here to access the MCE **Cambridge Primary** Maths (2nd Edition) website!

Cambridge Primary Mathematics 2nd Edition



Beyond Basics, Reimagine Education

Marshall Cavendish Education Cambridge Primary Mathematics (2nd Edition)

The Marshall Cavendish Education (MCE) Cambridge Primary Mathematics (2nd Edition) series is designed to support educators and learners following the Cambridge Primary Mathematics curriculum framework (0096). Our package nurtures Cambridge active learners, using the Concrete-Pictorial-Abstract (CPA) approach helping them develop conceptual understanding.

The series draws on Singapore's tried and tested methodologies that focus on mastery through sequencing of concepts. Through activities that promote engagement, curiosity, innovation and reflection, learners are encouraged to become more confident and self-directing. Incorporating the new Thinking and Working Mathematically skills, the series develops learners as 21st century mathematical thinkers within a globalised community.



Additional Digital Resources*

o Student's Book

- Annotatable Enhanced eBooks (Tagged with interactive digital resources)
- o Activity Book
 - Annotatable eBooks

o Digital Teacher's Guide

- Scheme of Work (Editable)
- Lesson Plans (Editable)
- Suggested Answers for Student's Book and Activity Book
- o Levelled Worksheets (Editable)
- o School-to-Home Notes
- o PowerPoint Slides (Editable)
- o Heuristics PowerPoint Slides (Editable)

*These resources will not go through the Cambridge International endorsement process.

Why choose MCE Cambridge Primary Mathematics (2nd Edition)?

- Offers the best of both worlds to equip students for successful and meaningful living in the 21st century
- Provides effective support and strategies for English as a Second Language (ESL)
 learners and educators
- Promotes relatability through real-life contexts
- Delivers a fun and engaging hybrid learning experience

Offers the Best of Both Worlds to Equip Students for Successful and Meaningful Living in the 21st Century

Our series offers specially designed instructional programmes that combine Cambridge International's global standard and Singapore's tried and tested methodologies. Our package focuses on mastery through the sequencing of concepts and Concrete-Pictorial-Abstract method. The Singapore Maths method encourages learners to think through problems and apply mental concepts in new ways.

Our series also incorporates Thinking and Working Mathematically (TWM), a new feature in the Cambridge Primary and Lower Secondary Mathematics curriculum framework. The TWM feature encourages learners to reason mathematically rather than to simply memorise facts and figures.





MCE Cambridge Primary Maths Student's Book

MCE Cambridge Primary Maths Activity Book



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About the Programme

The following information is based upon the current Cambridge Primary Mathematics curriculum framework from 2020. Please consult the Cambridge International website (www.cambridgeinternational.org/primary) for the most up-to-date curriculum documents and additional details regarding assessment arrangements for Stages 1 to 6.

a. The Mathematical Strands

The Cambridge Primary Mathematics curriculum from 2020 is organised into three main strands: Number, Geometry and Measure, and Statistics and Probability. These three main strands are sub-divided into themes or "sub-strands".

Number includes the sub-strands:

- counting and sequences,
 money,
 integers and powers,
 place values ordering and rounding,
 fractions, decimals, percentages, ratio, and proportion.

Initially, students begin with counting objects through experiences with concrete materials. Through identifying patterns and sequences, students develop understanding and reasoning about the structure and properties of number. This is an important first step in early algebraic thinking and reasoning. Concrete resources of real objects, then become linked to representational materials su as number lines, base-the flocks and counters. These resources are the main link to representation in mathematics that then becomes increasingly formalised.

Place value becomes increasingly important as a concept from Stage 1 as numbers increase in complexity towards millions by Stage 4. Alongside this, the four operations are developed as calculations with additive and multiplicative reasoning. Conceptual understanding of fractions is developed though early ideas of wholes and halves with a part-part-whole model. Having a sense of estimation is developed throughout as this is important for gaining a sense of number and proportionality as well as with size and measure for genometry. Estimation is also a crucial aspect of mental approaches to calculations as this gives a sense of reasonableness to their solutions. Reasoning in fractions is further developed with proportionality in terms of decimals and percentages, then ratio and proportion. Calculating with fractions, decimals and percentages becomes increasingly important from Stage 4 and has connections to representations in statistics.

Geometry and measure include time, geometrical properties and reasoning, and position and transformation. Initially the focus for geometrical progression is in developing a sense of 2-D and 3-D shapes and describing their properties. This becomes increasingly analytical with connections to transformations in shapes with reflective and rotational symmetry.

Students use position and direction to locate, describe and interpret movement on a grid as cardina and ordinal points. The relative positions of points as coordinates are also explored. From Stage 5, this is connected to plotting and transforming lines and shapes using grid coordinates.

Students explore measures as a concept from early non-standard measures to formal standardised measures for length, mass, capacity, temperature, and time. Early skill in estimation is important so that students can develop a sense of proportion and scale in measure. Following this, students then undertake tasks in measuring and calculating distances, mass, capacity, and time. Students also

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Teaching Strategies

This section covers *active learning* and creates an inclusive learning environment. The strategies are practical so as to enable effective classroom or home-based learning.

Teacher's Guide

The preface of Teacher's Guide offers a short introduction to TWM and the strands for educators who might be new to the curriculum framework. It also provides the teacher an introduction to the Concrete-Pictorial-Abstract approach.

Teaching Approaches and Learning Environment

a. Strategies for Active learning and Creating an Inclusive Learning Environment

Environment: In this section, we outline the strategies and activities that are suggested within the scheme. Through the Marshall caendish Primary Mathematics scheme, these strategies support students in becoming actively engaged, innovative, confident, reflective, and responsible mathematical students. Students are also encouraged to engage in creative mathematical thinking and to be motivated and enthusiastic participants in their own learning. They are enabled to become more confident by improving mathematical fluency and knowledge of the key concepts. Students will become increasingly responsible for their own learning and that of others, reflecting on the development of their mathematical skills, strategies, and conceptual understanding. They are enouraged to take an active and responsible for their own learning and that of others, reflecting on the development of students will become increasingly innovative as they communicate mathematically through written and verbal representations of concepts and strategies. They will learn to be confident users of representations with symbols, diagrams, sketches, and pictures. This also enables them to critique and improve their representations to become more effective. Further, students are motivated to confidently use technology in a way that promotes their own mathematical learning and understanding.

The Marshall Cavendish Primary Mathematics scheme also supports all students by creating an inclusive environment where all students know they can achieve mathematical understanding. It is important that all students embrace their misconceptions and view them as positive steps in developing reasoning and understanding. It is through provoking misconceptions that we develop a deeper understanding of mathematical concepts alongside structure and meaning.

The strategies below are listed with a description and possible variations to support different class sizes and contexts.

Strategy	Description
Think-Pair-Share For paired and class discussions	Teacher poses a problem, question or challenge that requires thinking, students think for a minute, then discuss in pairs for two minutes. Students then share with two others or with the whole class.
Think-Pair-Vote-Share For paired and class discussions	This is a variation of Think-Pair-Share. Teacher poses a problem, question or challenge that requires thinking, students think for a minute, then think and consider an answer in pairs, and suggest a few different options. Alternatively, Teacher poses some possible answers as options. Students vote by show of hands on their chosen answer. Students then suggest a convincing reason why it is that answer either to another pair or as a whole class.

MCE Cambridge Primary Maths Teacher's Guide

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Provides Effective Support and Strategies for ESL Learners and Educators

The series offers a comprehensive package to support both learners and educators. English language is pitched appropriately for ESL learners, with simple and concise language to ensure that learning is not hindered by their language skills. For nonspecialist educators, the series offers a unique combination of teaching strategies that support the delivery of lessons in the classroom.



Maths Journal

Encourage learners to reflect and write about their metacognitive thinking through journal writing at the end of each chapter.



Write a riddle using these words: prime number, composite number, divisible by 4 and 8 For example: A number is a composite number. It is divisible by 4 and 8.

What is the number?

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GLOSSARY

1 hundredth

comes after the tenths. 1 hundredth is written as 0.01 or 1/100

1 tenth

comes after the decimal point. 1 tenth is written as 0.1 or 1/10

2D shapes

- are flat
- area

is a measure of the amount of space in a shape.

associative law of addition

to add later numbers in an addition sum to make addition easier; for example:. 368 + 11 + 89 = 368 + 100 = 468

associative law of multiplication

to multiply later numbers in a multiplication term to make tion easier; for example: $55 \times 20 = 11 \times 5 \times 20 = 11$ x 100 = 1100

associative laws

allows us to work out the later numbers first bar chart

shows categorical or discrete data using bars Carroll diagram

a table that displays categorical data in a yes or no way

categorical data

data which consists of values that belong to a common group; for example: likes coffee / does not like coffee centre

the highest point in a graph

chance experiment

a test in which we perform a number of probability experiments to measure the chance of an event occurring

closed cube

a closed cube has 6 identical square faces joined at their edges

commutative law of addition

to swap the numbers in an addition sum to make addition easier; for example:. 45 + 126 + 55 = 45 + 55 + 126 = 100 + 126 = 226

commutative law of multiplication

to swap the numbers in a multiplication to make multiplication easier; for example: 5 x 24 x 4 = 5 x 4 x 24 = 100 x 24 = 2400 292

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commutative laws

We can swap the order of the numbers.

compose

To combine numbers with different place values.

composite numbers a number that has more than two factors

Compound shapes

are made up of 2 or more shapes.

constant

a number which is consistently added to or subtracted from in a linear sequence continuous data

coordinates

describe points on a grid.

cuboid

a figure with a square or rectangular base which has 6 faces decompose

To separate into numbers with different place values diagonal

a slanted line

discrete data

data which can be counted; for example: number of marbles a student has

distributive law of multiplication

to break down a term in a multiplication equation to make multiplication easier; for example: $110 \times 17 = 110 \times 10 + 110 \times 7 = 1100 + 770 = 1870$

divide by a 1-digit whole number

to divide a number by a single digit number; for example: 140 $\div 7 = 20$

dot plot

is a graph where each dot represents a data point.

equilateral triangle

has 3 equal sides, 3 equal angles, and 3 lines of symmetry. equivalent

of the same size



Glossary of Terms

Provides the mathematical terms and definitions that are introduced throughout the book. These terms are presented as *visuals* in the Student's Book.

data which is gathered by measuring; for example: number of marks students in a class get for a test



MCE Cambridge Primary Maths Teacher's Guide

Marshall Cavendish Cambridge Primary Mathematics (2nd edition) Stage 5

Differentiation

- For support:
 Ensure that students know how to find the factors of numbers before moving on to the difference between prime and composite numbers.
 Go through questions 1 and 2 for students to build on the skill of finding the factors of a number less than 100.
 Go through questions 3 and 4 to help students build the skill of being able to tell the difference between prime and composite numbers. You may use the following samples or make up your own questions:
 1. Find the factors of 15. (*Expected answer: 1, 3, 5, and 15.*) This question requires students to find the factors

 - Find the factors of 15. (*Expected answer: 1, 3, 5, and 15.*) This question requires students to find the factors of a number smaller than 100.
 How many factors does 28 have? (*Expected answer: The factors of 28 are 1, 2, 4, 7, 14, and 28. 28 has six factors.*) This question requires to identify the number of factors in a number smaller than 100.
 Is 10 a prime or composite number? Explain. (*Expected answer: 10 is a composite number. It has four factors: 1, 2, 5, and 10.*) This question requires students to identify a composite number.
 Why is 19 a prime number? *Explain.* (*Expected answer: It has exactly two factors, 1 and itself.*) This question requires students to state the definition of prime number.

For challenge
Have students work in pairs.
Get students to take turns to roll two die and make their moves using a hundreds chart. At each number, have them find the factors and identify whether it is a prime or composite number. If they it right, they get to move forward at their next turn. If they get it wrong, they move backwards. Get them to take turns and repeat the exercise. The first person to cross 100 wins.

Differentiated Instructions

Suggests further activities to *scaffold learning* for learners who require additional support and extend learning for more confident learners.

Schemes of Work

Enables educators to plan lessons effectively as they save time and effort in locating materials across the series.

Scheme of Work

Chapter 1 Special Numbers

Suggested time frame: 8 period is 40 min.

Section	No. of Periods	Learning Objectives	Resources	Thinking and Working Mathematically (TWM) and Social and Emotional Learning (SEL)
Chapter Opener	3		 Student's Book p.1 Video via MCE Cambridge app Counters, shapes or sticks 	
A. Prime and Composite Numbers		5Ni.06 Understand and explain the difference between prime and composite numbers.	Student's Book pp.2–5 Activity Book pp.1–3 Counters, marbles, or shapes Cubes or blocks TR1A Hundred Square Grid	TWM: Characterising Convincing Specialising SEL: Social awareness Relationship skills
B. Tests of Divisibility	4	5Ni.07 Use knowledge of factors and multiples to understand tests of divisibility by 4 and 8.	 Student's Book pp.6–8 Activity Book pp.4–6 Number chips Long piece of paper or ribbon 	TWM: Convincing Classifying
Chapter Wrap Up	1		Student's Book pp.9–10 Activity Book p.7 two counters (one red and one blue) Dice Papers	TWM: Convincing

MCE Cambridge Primary Maths Teacher's Guide

Promotes Relatability through Real-life Contexts

This series caters to the international audience with the use of real-life contexts. Visuals are attractive and colourful, with scenarios and characters that the audience can more easily identify with. Learning is enhanced with the use of real-world contexts, enabling learners to better understand the relevance and make sense of the mathematical concepts, improving knowledge retention. This series also provides opportunities for Social-and-Emotional Learning, where students become more aware of oneself and others around them.

MCE Cambridge Primary Maths Student's Book





MCE Cambridge Primary Maths Student's Book

Delivers a Fun and Engaging Hybrid Learning and Teaching Experience

The series is designed to make learning joyful and meaningful. The digital resources provide a dynamic hybrid learning and teaching experience. Videos, quizzes, and virtual manipulatives are embedded throughout the book to make learning interactive for learners.

For educators, online PowerPoint lesson slides, along with lesson plans and annotatable eBooks, are provided for ease of lesson delivery. Colourful visuals and diagrams also help to make learning mathematics fun!



MCE Cambridge Primary Maths Student's Book

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Annotatable Enhanced eBooks*

eBooks come with an *annotation function*, allowing answers to be saved and submitted. *Interactive digital resources* are also embedded throughout the book, keeping learners engaged. These activities can be attempted in learners' own time or delivered as part of an in-class activity.



Teacher's Digital Resources*

PowerPoint slides and *lesson plans* are provided in *editable formats* to support educators in effective lesson planning and delivery.



*These digital resources will not go through the Cambridge International endorsement process.

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Grade 7 – 9 | Age 13 – 15

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