



PRIMARY MATHS

BROCHURE





My Pals are Here! Maths (4th Edition)

My Pals are Here! Maths (4th Edition) is a six-level primary mathematics series that is widely adopted and highly popular amongst teachers and learners worldwide. Being the main Maths package used in Singapore since 2001, it has contributed to Singapore's success in topping international studies such as Trends in International maths and Science Study (TIMSS) and Programme for International Student Assessment (PISA). It is used in more than 50 countries, 10 of which are using country-specific adaptations of the series. Favoured for its engaging visuals, hands-on activities and digital interactives, My Pals are Here! Maths makes learning fun and has proven to be effective in developing and honing learners' 21st century competencies.

Updated based on the latest mathematical thinking and best practices in the 2021 Singapore Mathematics Syllabus, **My Pals are Here! Maths (4th Edition)** continues to bring you the very best of what has been provided in the previous editions. The series is now made more suitable for a hybrid classroom with a comprehensive blend of print and digital resources which are designed to be easy to use. With the high-quality resources of the enhanced series, teachers can now better develop their learners into resilient, critical and creative thinkers and future-ready problem solvers.

Product Architecture

Learner's Book



The eBook can be annotated and includes interactive digital resources such as animated openers, learn videos, and virtual manipulatives.

Workbook



The eBook can be annotated and marked by teachers through the eWorkbook module on



Teacher's Guide



The eBook can be annotated and includes printable teacher resources such as schemes of work, lesson plans, class presentations, and worked solutions.

In addition, teachers are also given access to a question bank.

Why Choose My Pals are Here! Maths (4th Edition)?

1 Based on the Latest Best Practices Adopted by the Highest-Achieving Maths Classrooms in the World

The latest 2021 Singapore Mathematics Syllabus aims to further improve the learning and teaching of mathematics by placing a greater emphasis on the development of the 21st century competencies such as critical and creative thinking, as well as metacognition. **My Pals are Here! Maths (4th Edition)** is designed to align with the goals of the new syllabus so that classrooms worldwide can have access to the latest practices adopted in Singapore.

One of the hallmarks of **My Pals are Here! Maths** is the intentional and progressive development of critical and creative thinking skills through mathematical problem solving.

In line with the latest syllabus, the problem-solving opportunities in **My Pals are Here! Maths (4th Edition)** have been increased and are now designed with a focus on real world contexts. Such relevant contexts make learning meaningful for learners and motivate them to learn, while ensuring that their critical and thinking skills are honed.

SECTION OPENERS offer such real-world problem-solving opportunities to warm learners up to learning. In addition to being relatable to learners, these problems tap on the learners' prior knowledge and can be solved in various ways, hence honing their critical and creative thinking skills.



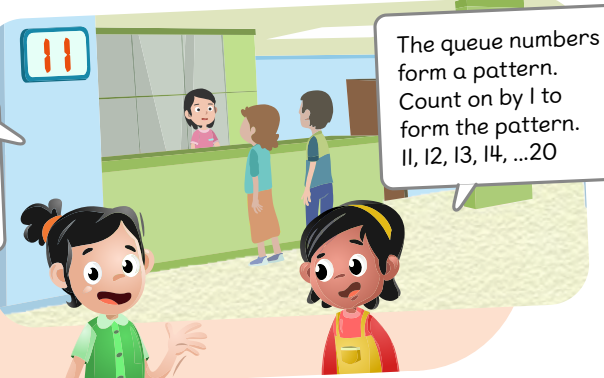
Learner's Book p.1

Sharing!

What number patterns do you see around you?
What number patterns can you create?

Examples

You need to get a queue number to see the doctor.



The queue numbers form a pattern. Count on by 1 to form the pattern. 11, 12, 13, 14, ...20

SHARING! encourages learners to share their experiences in their everyday life and discuss how they can apply what they have learnt. Such opportunities develop learners' reasoning and communication skills, which are vital 21st century competencies.



What do you notice about the house numbers?

What pattern do you see?

Sharing! (Pupil's Book, page 94)

20 minutes

- This activity allows pupils to discuss the **Big Ideas about Invariance and patterns**: A number pattern or a sequence of numbers can be formed by adding a constant value or subtracting a constant value. Patterns help us describe relationships and make generalisations and predictions for new situations.
- Have pupils work in pairs or groups to reason and communicate their thinking.
- Draw pupils' attention to the picture at the top of the page.
- Highlight that it is a scene of people queuing to see a doctor at a clinic.
- Ask**: What queue number is the doctor attending to now? (11)
- Ask**: If Jessie gets a queue number 16, how many patients are ahead of her? (4, excluding the patient with queue number 11)
- Next, draw pupils' attention to the picture at the bottom of the page.
- Highlight that it is a scene of houses at an estate.
- Ask**: What do you notice about the numbers? (All the house numbers 1, 2, 3, 4, 5, 6, form a number pattern; the houses numbers on the left, 1, 3, 5 form a number pattern and the house numbers on the right, 2, 4, 6, form another number pattern)

For Extension

Lisa's house number is 78.
Is her house on the left or right? (right)

- Encourage pupils share about more number patterns they see around them.
- Guide pupils to explore different number patterns.

My Pals are Here! Maths (4th Edition)

continues to feature the popular Put On Your Thinking Cap! section, now enhanced with more questions and a stronger emphasis on real-life scenarios.

The questions are designed to encourage learners to use problem-solving strategies or heuristics. The recommended heuristics are clearly outlined in the Teacher's Guide.

Put On Your Thinking Cap!

1 A garden has fewer than 18 flowers.
There are 10 pink flowers.



(a) What is the greatest possible number of blue flowers?

(b) What is the smallest possible number of blue flowers?

2 Chris has more cards than Alan.
Alan has fewer cards than Budi.
Chris has fewer cards than Budi.

(a) Who has the smallest number of cards?

(b) Who has the greatest number of cards?

3 Here are six queue numbers.



The numbers form a number pattern.
What are the two missing numbers?

- Put On Your Thinking Cap!** (Pupil's Book, page 95) **30 minutes**
- Encourage pupils to explore, think critically and explain their thinking as they work in pairs or small groups to solve (1) to (3).
 - In (1), pupils have to determine what is the greatest value and the smallest value. Encourage pupils to draw a number tape to show numbers less than 18. Pupils may solve the question by making a list.
 - In (2), pupils have to reason the position of the numbers represented by A, B and C. Encourage pupils to draw a number tape to place and order the three numbers. Pupils may solve the question by drawing a picture or acting it out.
 - In (3), pupils are required to count on or back to find the answer to determine if the set of numbers forms a pattern. This helps them to find the unknown values that will form a pattern. Pupils may use other strategies to find the answer. Encourage pupils to write the numbers on a number tape.
 - Assign pupils Workbook 1A, End-of-Chapter Practice (Level 3), pages 119 – 120, to extend what they have learnt in the chapter.

Solving word problems

Let's LEARN

1 Max has 15 robots.
Jim has 11 robots.
How many fewer robots does Jim have than Max?

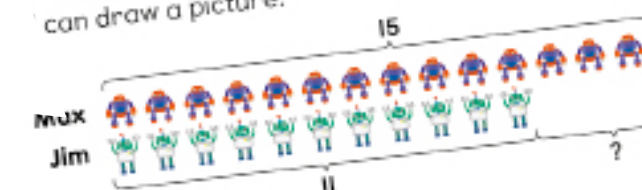
Step 1 Understand

How many robots does Max have?
How many robots does Jim have?
What do I have to find?



Step 2 Plan

I can draw a picture.



Step 3 Do

The problems found in **PUT ON YOUR THINKING CAP!** are especially important in developing critical and creative thinking skills. Solving these problems not only helps learners learn a variety of problem-solving strategies or heuristics, it also encourages them to approach such problems systematically.

Teacher's Guide p.2

Let's Reflect Together (Workbook, pages 121 – 122)

20 minutes

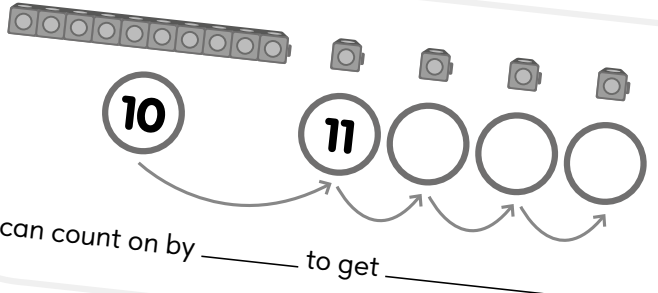
- At the end of this chapter, pupils should be able to:
 - count on from 10 to 20;
 - read and write 11 to 20 in numerals and words;
 - use tens and ones to show numbers to 20;
 - compare the number of objects in two or more sets within 20;
 - compare and order numbers to 20;
 - find 1 more/less than a given number;
 - find 2 more/less than a given number;
 - find the missing number(s) in a number pattern within 20.
- Use the Let's Reflect Together to guide pupils to reflect on what they have learnt in the chapter.

The new syllabus places a greater emphasis on metacognition and **My Pals are Here! Maths (4th Edition)** delivers this aim through the guided reflection opportunities, found in **LET'S REFLECT TOGETHER**. Such reflection opportunities on the key concepts and skills encourage learners to actively think about their learning and thinking, which is key to developing metacognition skills.

Workbook p.27

Let's REFLECT TOGETHER

Talk to your classmate about these sentences.

- The method of counting I learnt is _____.
- 

I can count on by _____ to get _____.
- Compare 13 and 18.
Circle the correct word.
First, I compare the (ones / tens).
Are they equal? (Yes / No)

Next, I compare the (ones / tens).
3 is (greater / smaller) than 8.
So, 13 is (greater / smaller) than 18.

© 2021 Marshall Cavendish Education Pte Ltd

Let's Reflect Together 27

2

Enhances the Strong Fundamental Elements of My Pals are Here! Maths

Since 2001, the **My Pals are Here! Maths** series has developed many mathematics learners who have performed well at TIMSS and PISA. Its unique pedagogy develops critical and creative thinkers through making maths visual and fun.

The intentional and progressive development of critical and creative skills has been a key characteristic of the **My Pals are Here! Maths** series in the previous editions, and it continues to be a prominent feature in this latest edition. The **4th Edition** provides more opportunities in problem-solving to develop these critical and creative thinking skills through specific sections such as the **SECTION OPENER**, **SHARING!** and **PUT ON YOUR THINKING CAP!**. At the same time, where these sections have appeared in the previous editions, there are now more of such thinking questions, as compared to before.

Learner's Book p.41

Put On Your Thinking Cap!

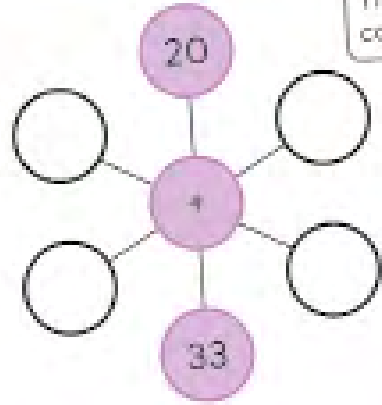
- Fill in the blanks.

(a)

$$\begin{array}{r} 3 \\ + 4 \\ \hline 8 \end{array}$$

(b)

$$\begin{array}{r} 5 \\ + 4 \\ \hline 7 \end{array}$$
- The numbers in each line add up to 53.
Fill in the .
Use numbers that are greater than 10.



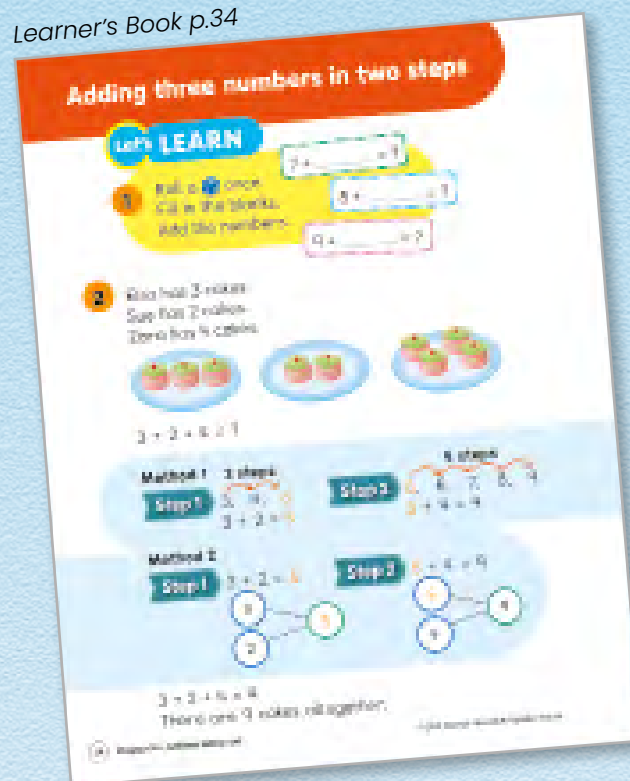
There are many correct answers!

Workbook 11: End of Chapter Practice Let's Reflect Together

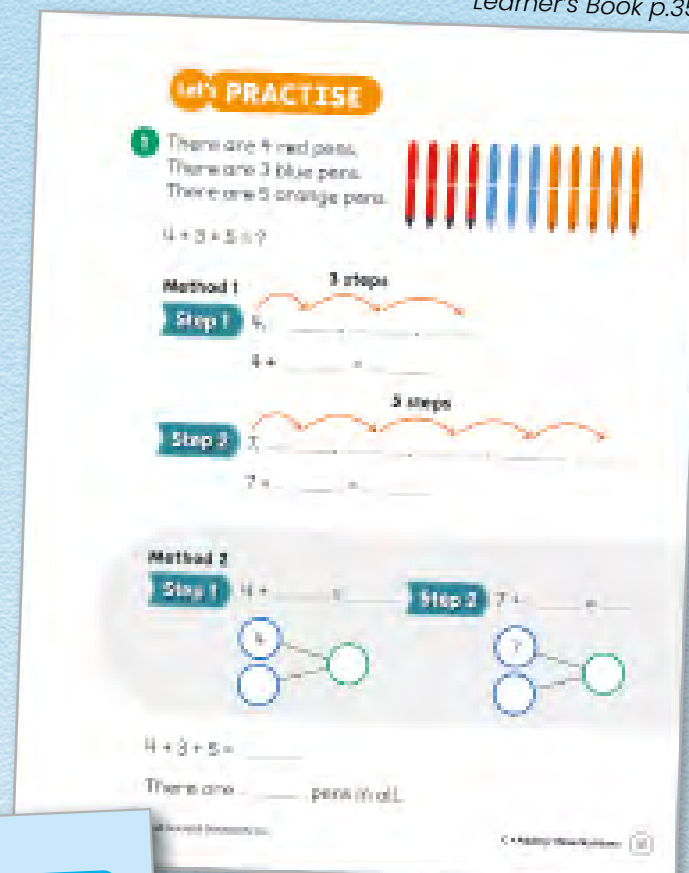
Chapter 10 • Addition Within 100 12

My Pals are Here! Maths (4th Edition) also continues its legacy of adopting the Concrete-Pictorial-Abstract (CPA) approach. Learners start their discovery with concrete objects before moving on to visuals, and finally abstract representations. With the adoption of such a visual approach and with the unpacking of concepts carefully scaffolded, learners can succeed in learning maths regardless of their language proficiency.

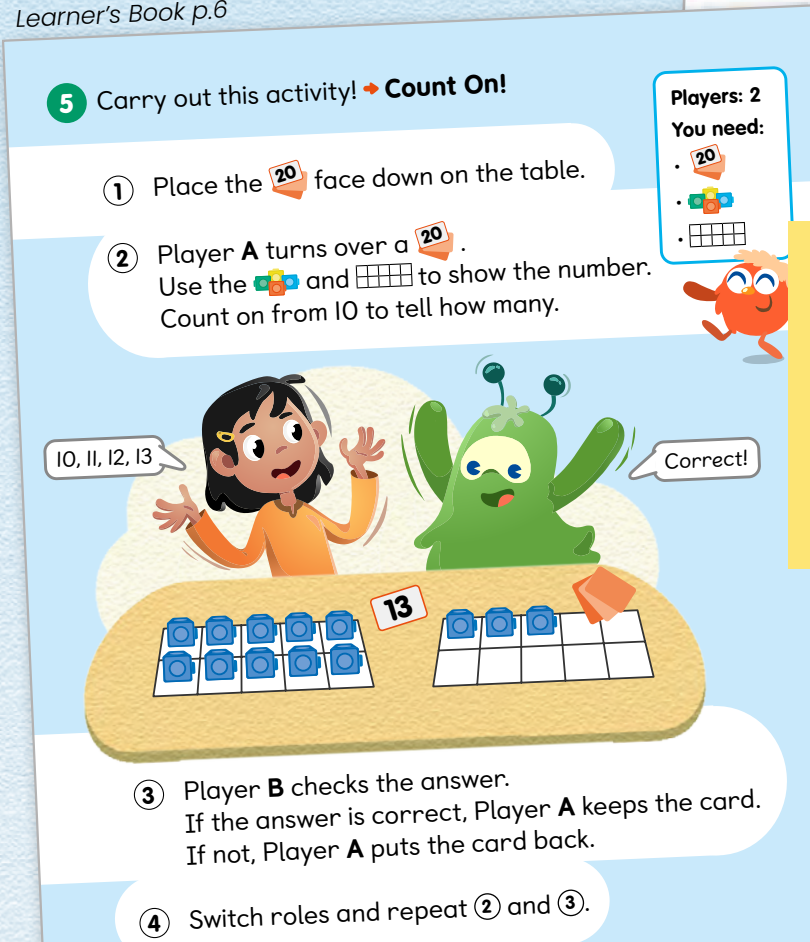
Learner's Book p.34



Learner's Book p.35



Learner's Book p.6



My Pals are Here! Maths has always included fun and engaging activities to help learners master maths. The activities focus on peer-to-peer interaction among learners to encourage them to achieve mastery in a fun and collaborative manner. **My Pals are Here! Maths (4th Edition)** continues to deliver this promise.

3 Designed for 21st Century Educators and Learners, with a Comprehensive Suite of Print and Digital Resources

The post-Covid world has changed the way lessons can be carried out. Regular lessons are now not limited to being conducted within the physical classrooms in schools, they can also be done through home-based learning.



My Pals are Here! Maths (4th Edition) offers the printed Learner's Books and Workbooks to benefit young learners with a tactile experience.

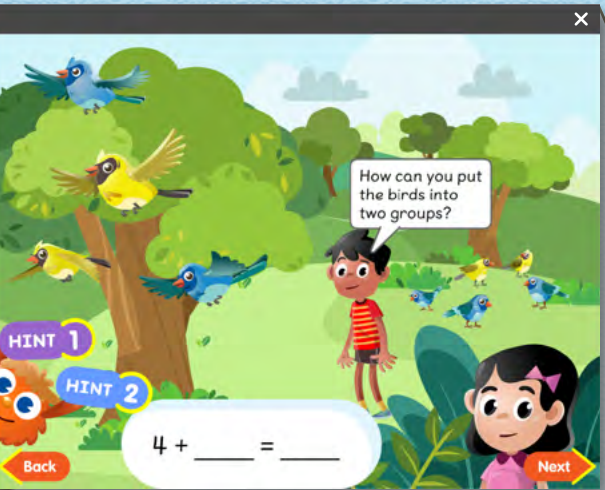
My Pals are Here! Maths (4th Edition) provides a comprehensive solution for both teachers and learners in the various learning and teaching scenarios. The series comes complete with both the print and digital Learner's Books, Workbooks and Teacher's Guides for use in physical and online classrooms. The extensive suite of learning and teaching digital resources is easily accessible through the eBooks or the app with marker recognition function, where they are tagged at the point of use. **My Pals are Here! Maths (4th Edition)** has now become more exciting and easier to use with a blended suite of resources that can be accessed anywhere!



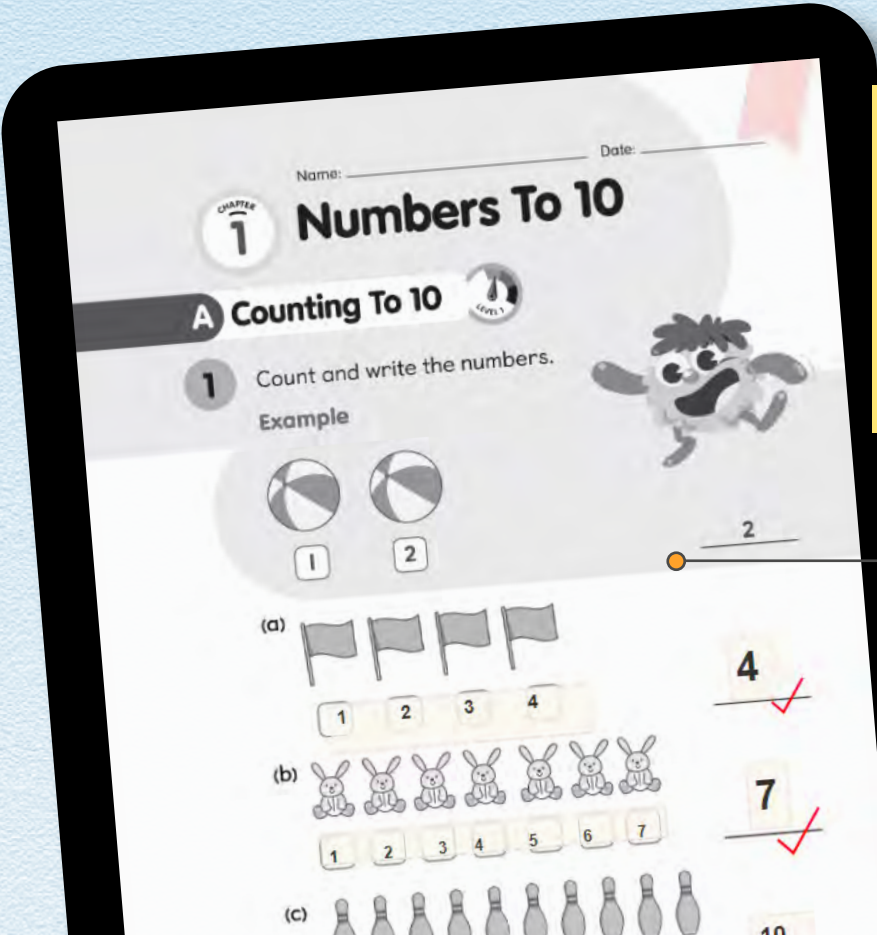
App Icon



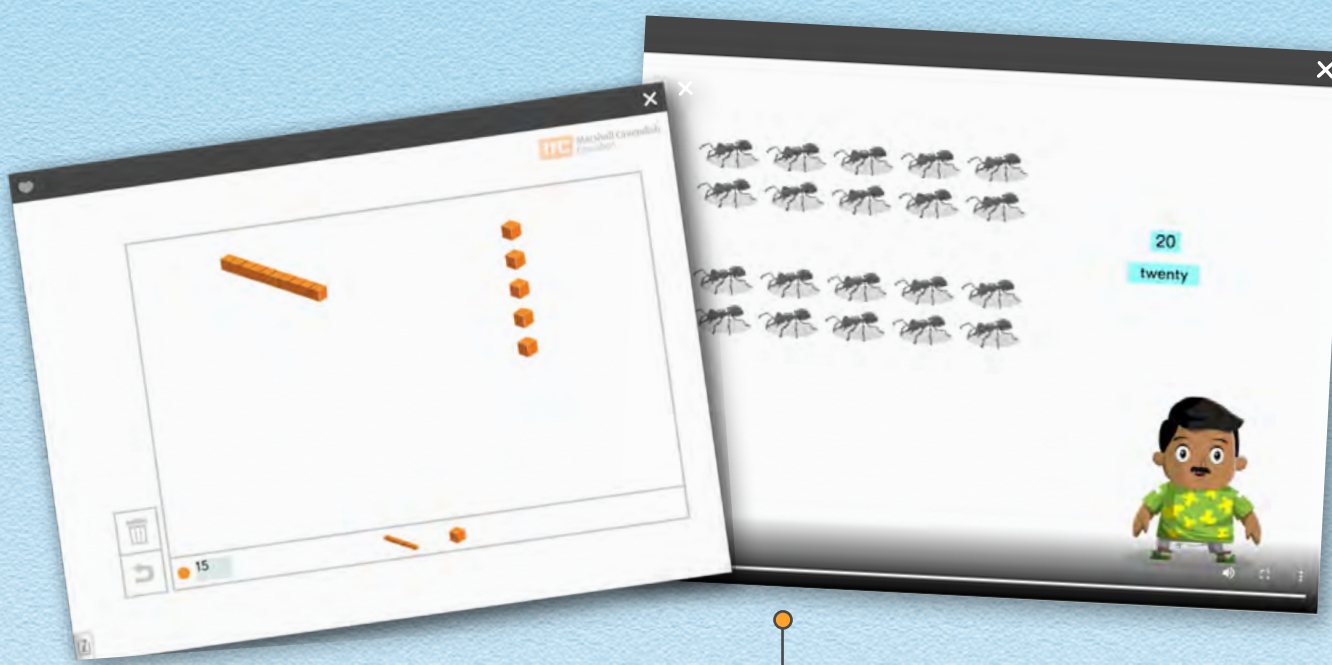
Animated Opener



My Pals are Here! Maths (4th Edition) also offers helpful digital resources at the point of use to make learning even more engaging. For example, key section openers are animated to make learning more interactive and dynamic in both physical and online classrooms. The animated openers can be accessed via the links found in the eBooks or through the app by scanning the pages of the printed books.



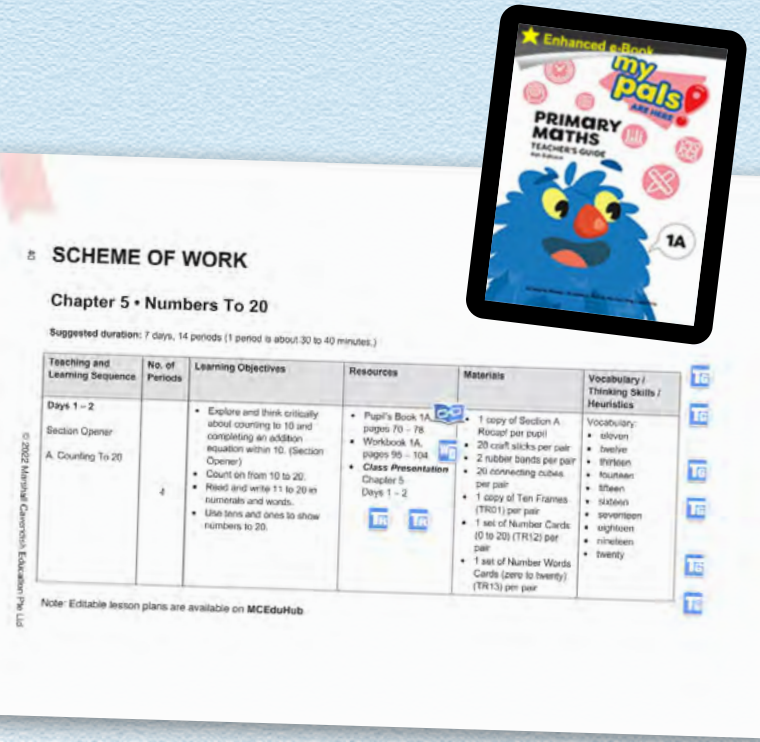
In addition to the Learner's Book eBooks, eBooks of the Workbook are also available. All the eBooks can be annotated – learners will be able to do their work on the eBooks and teachers will be able to review and mark learners' work digitally.



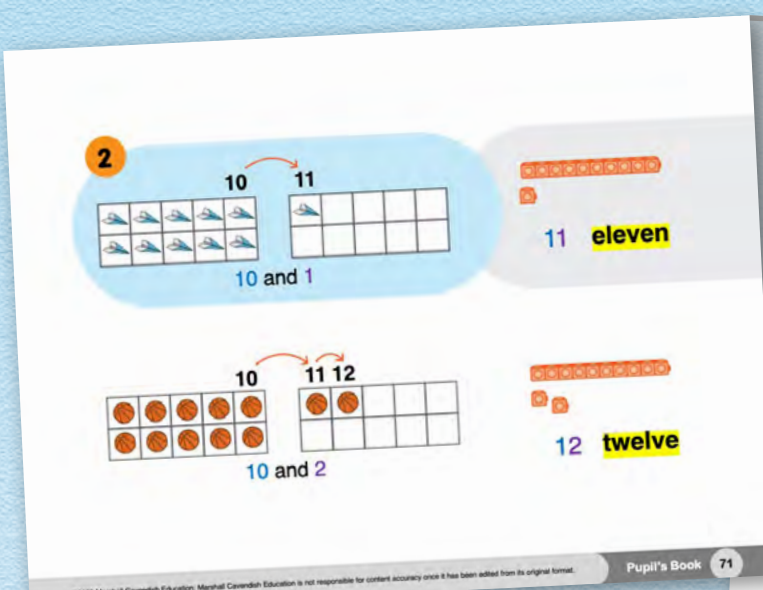
Besides the animated openers, **My Pals are Here! Maths (4th Edition)** offers other digital resources such as learn videos and virtual manipulatives. As the physical manipulatives may not be readily available when we move from the physical classrooms to the online classrooms, the virtual manipulatives allow learners to interact with the maths contents. The use of virtual manipulatives provides learners with a concrete experience for them to explore and understand abstract mathematical concepts. It is easy to access the digital resources via the various links found in the eBooks or through the app.

Not only has the learners' user experience been improved, but teachers will also find an improved experience in using the new Teacher's Guide eBooks. The eBooks are tagged with various digital resources at the point of use for easy access. The digital classroom may be challenging to handle but having the required resources at the teachers' fingertips will lighten their load.

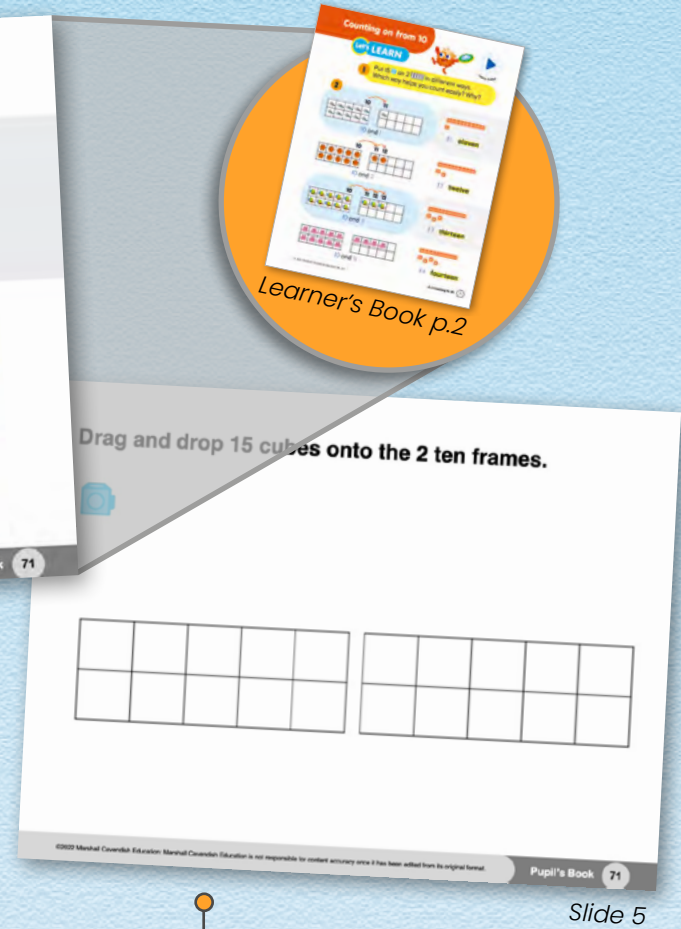
Teachers can mouse over the icons to reveal contents of the links. Clicking on the links takes the teacher directly to the contents of the resources.



To promote learners’ understanding of the abstract concepts, it is important that the teacher resources are seamlessly integrated with the learners’ materials.



Slide 6

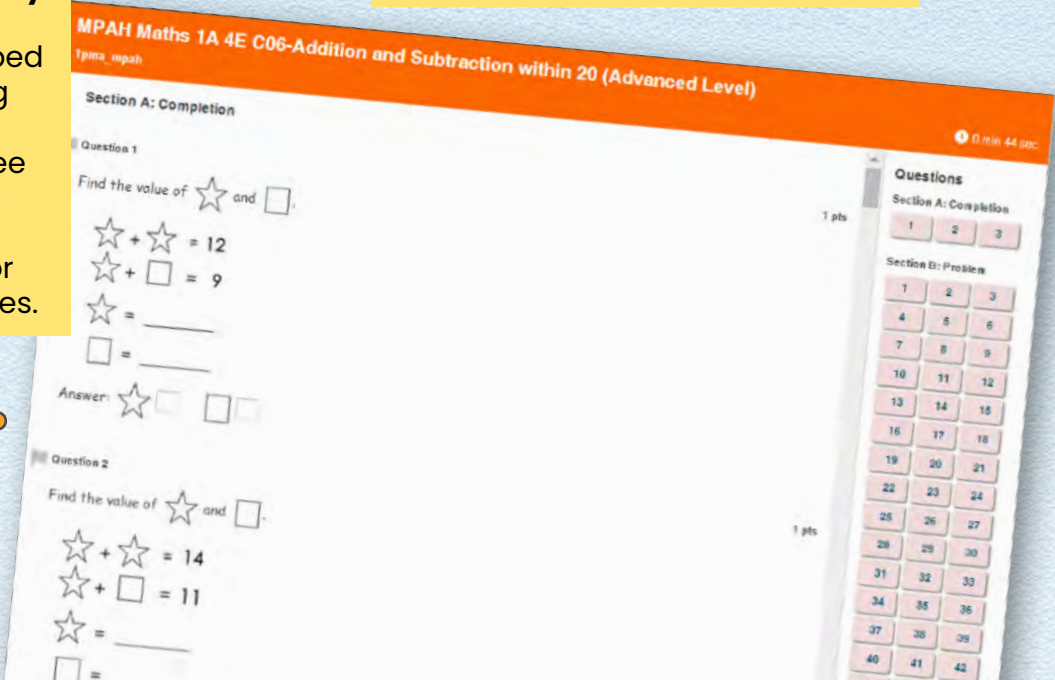


Slide 5

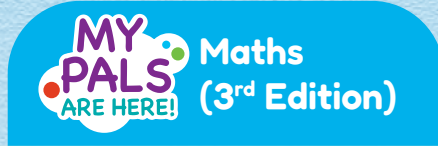

My Pals are Here! Maths (4th Edition) now offers integrated slides that present contents that are similar to what the learners see in the books. Learners will be able to follow their teacher’s slides while using their books, making distance learning easier and more synchronised with face-to-face learning.

The slides also include the visuals of manipulatives that can be dragged-and-dropped to help teachers implement the Concrete-Pictorial-Abstract (CPA) approach with their learners in an online classroom.

The question bank in **My Pals are Here! Maths (4th Edition)** is equipped with an auto-marking function. It contains 1000 questions at three different levels: basic, intermediate, and advanced, to cater for differentiated practices.



MPaH! Maths 3rd vs 4th Edition: What’s New?

		
Alignment to Singapore Maths Syllabus	2013	2021
General Approach	Emphasis on 21 st century competencies such as reasoning, communication, critical and creative thinking	A greater emphasis on 21 st century competencies including reasoning, communication, critical and creative thinking and metacognition
Development of Concepts and Skills	Concrete-Pictorial-Abstract approach	Concrete-Pictorial-Abstract approach
Development of 21 st Century Competencies (Processes, Metacognition and Attitudes)	Focuses on the use of learning experiences	Focuses on the use of: <ul style="list-style-type: none">• more problem-solving in real-world contexts• more fun learning experiences• reflection on learning processes
Team of Experts	For lower primary levels: <ul style="list-style-type: none">• Dr Fong Ho Kheong• Bernice Lau Pui Wah• Chelvi Ramakrishnan• Michelle Choo	For lower primary levels: <ul style="list-style-type: none">• Dr Fong Ho Kheong, Consultant and Principal Author of MPaH! Maths• Dr Darren Yeo, Assistant Professor with expertise in educational neuroscience and mathematics education• Dr Foo Kum Fong, Master Teacher in Mathematics• Julia Fong, International Mathematics Coach
High-Quality Blended Resources	<ul style="list-style-type: none">• Learner’s Books• Workbooks• Teacher’s Planning Guides• Teaching Aid Slides• Question Bank• eBooks with a variety of digital resources• Maths Learning Solution	<ul style="list-style-type: none">• Learner’s Books, enhanced digital resources• Workbooks, enhanced with levelled practices• Teacher’s Guides, simplified with easy-to-use lesson plans• Class Presentations for seamless blended lessons• Question Bank with auto-marking function• eBooks with a variety of digital resources and the eWorkbook module to allow teachers to mark learners’ Workbooks

Learner's Book

9789815005974	My Pals Are Here Maths Book 1A (4 th Edition)	Grade 1
9789815005981	My Pals Are Here Maths Book 1B (4 th Edition)	Grade 1
9789814913270	My Pals Are Here Maths Book 2A (4 th Edition)	Grade 2
9789814913287	My Pals Are Here Maths Book 2B (4 th Edition)	Grade 2
9789814927451	My Pals Are Here Maths Book 3A (4 th Edition)	Grade 3
9789815108903	My Pals Are Here Maths Book 3B (4 th Edition)	Grade 3

Workbook

9789815014013	My Pals Are Here Maths Book 1A (4 th Edition)	Grade 1
9789815014020	My Pals Are Here Maths Book 1B (4 th Edition)	Grade 1
9789815055016	My Pals Are Here Maths Book 2A (4 th Edition)	Grade 2
9789815055023	My Pals Are Here Maths Book 2B (4 th Edition)	Grade 2
9789815108934	My Pals Are Here Maths Book 3A (4 th Edition)	Grade 3
9789815108941	My Pals Are Here Maths Book 3B (4 th Edition)	Grade 3

Teacher's Guide

9789815005998	My Pals Are Here Maths Book 1A (4 th Edition)	Grade 1
9789815014006	My Pals Are Here Maths Book 1B (4 th Edition)	Grade 1
9789814913331	My Pals Are Here Maths Book 2A (4 th Edition)	Grade 2
9789814913461	My Pals Are Here Maths Book 2B (4 th Edition)	Grade 2
9789815108910	My Pals Are Here Maths Book 3A (4 th Edition)	Grade 3
9789815108926	My Pals Are Here Maths Book 3B (4 th Edition)	Grade 3

Also available in this series



Science International (2nd Edition) is a colourful and vibrant six-book series that presents science concepts to young learners in a fun and enjoyable way, catering to learners with a variety of learning styles. At the core of MPAH Science International (2nd Edition) lies the same effective pedagogies that are iconic to the MPAH Science series, which has seen success for almost two decades of supporting primary science teaching and learning. The 2nd Edition continues the Inquiry-based Approach, structured around the 5E (Engage, Explore, Explain, Elaborate, Evaluate) Instructional Model, in order to develop learners' science process skills. Together with a spiral progression in curriculum design and addition of new features, the series helps learners acquire a deep understanding and appreciation of the scientific concepts.

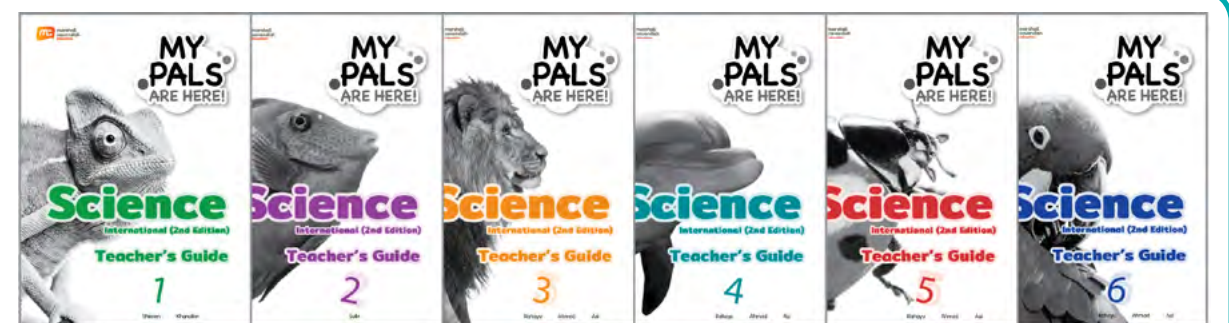
Learner's Books



Activity Books



Teacher's Guides



CUSTOMER SERVICES

Private Bag X19, Northlands, 2116

Tel: 011 731 3300

Email: customerservices@macmillaneducation.co.za

Website: www.macmillaneducation.co.za

Facebook: [MacmillanSouthAfrica](https://www.facebook.com/MacmillanSouthAfrica)

Twitter: [@MacEdSA](https://twitter.com/MacEdSA)

AGENCY AND DIGITAL SALES

Kilayne Pelser

Agency and Digital Sales Manager

Cell: 076 994 0985

Email: Kilayne.Pelser@macmillaneducation.co.za

Nicole Smith

Agency and Digital Sales Consultant

Cell: 082 944 6968

Email: Nicole.Smith@macmillaneducation.co.za

NATIONAL

Sibonelo Mkhasibe

Head of National School Sales

Cell: 066 474 3793

Email: Sibonelo.Mkhasibe@macmillaneducation.co.za

Antoinette de Vries

Head of National Commercial Sales and Marketing

Tel: 011 731 3455

Email: Antoinette.deVries@macmillaneducation.co.za

MACMILLAN TEACHER CAMPUS

Tel: 011 731 3409

Email: za.mtc@macmillaneducation.co.za

EASTERN CAPE

Ayanda Nkunzi

Sales and Marketing Representative

Cell: 082 949 9664

Email: Ayanda.Nkunzi@macmillaneducation.co.za

FREE STATE

Peter Ledwaba

Provincial Sales Manager

Cell: 076 994 0986

Email: Peter.Ledwaba@macmillaneducation.co.za

GAUTENG

Asheena Patel

Provincial Sales Manager

Cell: 066 138 2746

Email: Asheena.Patel@macmillaneducation.co.za

GAUTENG

Phathi Kona

Sales and Marketing Representative

Cell: 060 908 8209

Email: Phathi.Kona@macmillaneducation.co.za

KWAZULU-NATAL

Ernest Muzi Mshengu

Provincial Sales Manager

Cell: 082 528 3712

Email: Ernest.Mshengu@macmillaneducation.co.za

Qhawe Gumede

Sales and Marketing Representative

Cell: 079 877 4995

Email: Qhawe.Gumede@macmillaneducation.co.za

LIMPOPO

Mmatapa Moabelo

Sales and Marketing Representative

Cell: 078 804 0612

Email: Mmatapa.Moabelo@macmillaneducation.co.za

MPUMALANGA

Lillian Vuma

Sales and Marketing Representative

Cell: 078 803 9918

Email: Lillian.Vuma@macmillaneducation.co.za

NORTH WEST

Mmaabo Modisane

Provincial Sales Manager

Cell: 071 399 1337

Email: Mmaabo.Modisane@macmillaneducation.co.za

NORTHERN CAPE

Liezl Abrahams

Sales and Marketing Representative

Cell: 071 441 9144

Email: Liezl.Abrahams@macmillaneducation.co.za

WESTERN CAPE

Liezl Abrahams

Sales and Marketing Representative

Cell: 071 441 9144

Email: Liezl.Abrahams@macmillaneducation.co.za

Tania Zeederberg

Sales and Marketing Representative

Cell: 066 211 4352

Email: Tania.Zeederberg@macmillaneducation.co.za