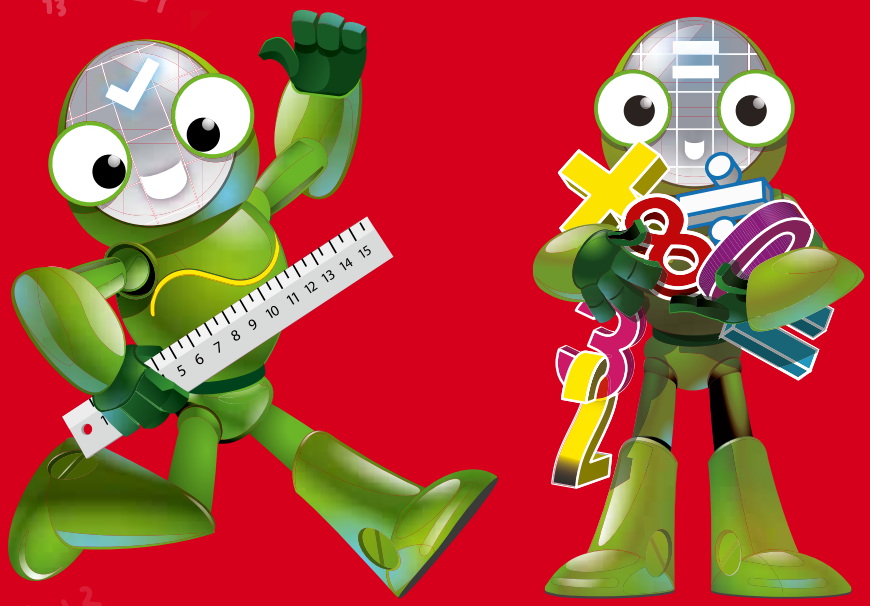
macmillan education

INTERNATIONAL CURRICULUM



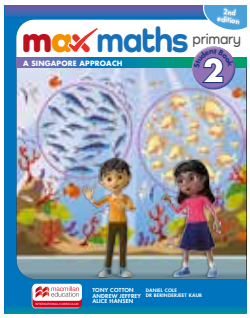
Unlock the power of learning maths in English

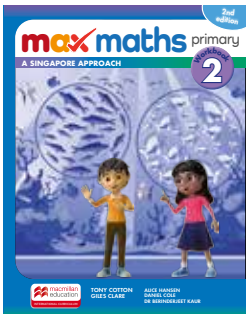
NEW EDITION!

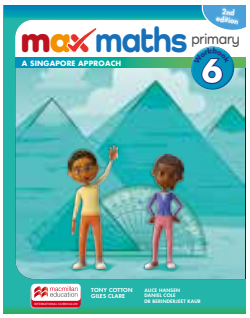
max maths primary

A SINGAPORE APPROACH

PRIMARY • YEARS 1 – 6







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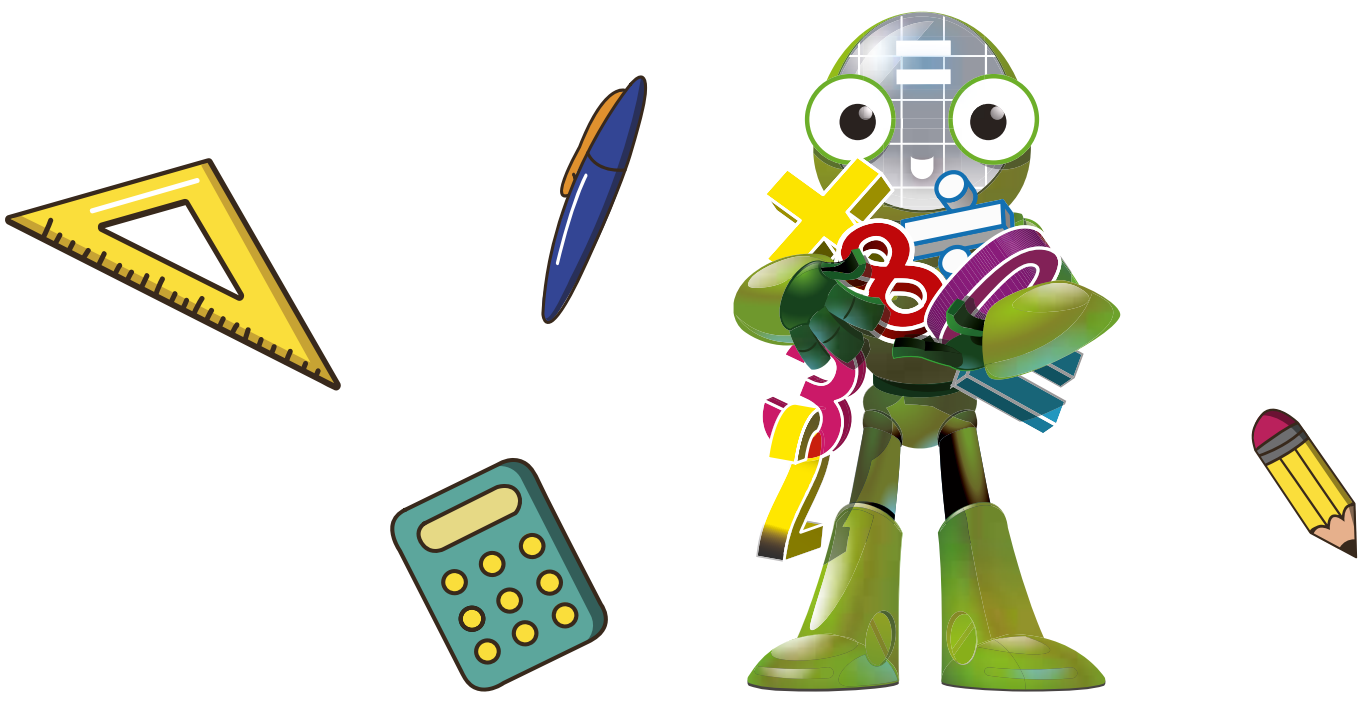


An Introduction to Max Maths Primary: A Singapore Approach Second Edition

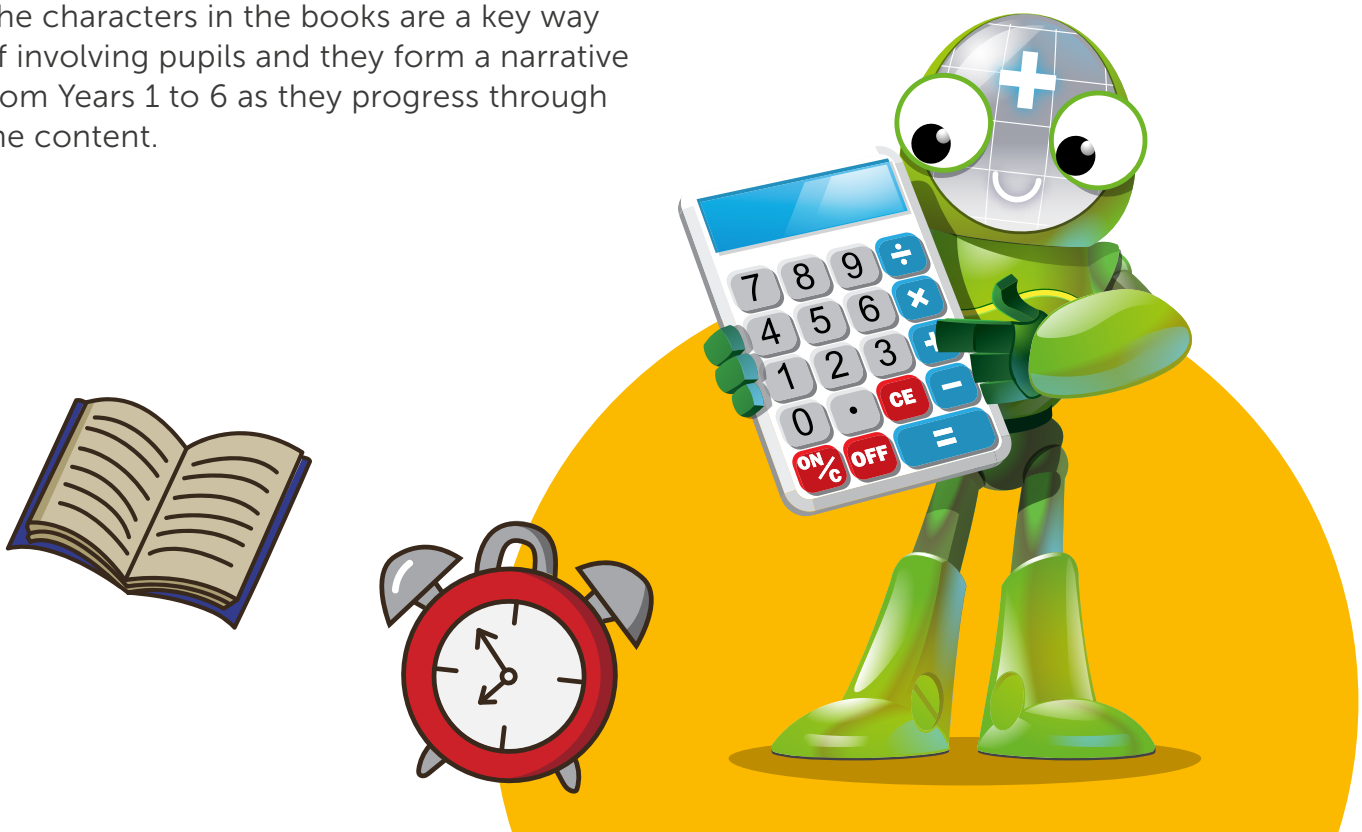
Max Maths Primary: A Singapore Approach Second Edition has been developed by internationally renowned experts for Macmillan Education in partnership with Star Publishing, Singapore's leading publisher for primary mathematics. Based on research and substantial evidence, the Max Maths series is a highly effective approach to teaching that ensures ALL students succeed.

The Concrete-Pictorial-Abstract (CPA) Approach is used to teach each core mathematics concept. This methodology encourages students to think mathematically instead of learning by rote topics and concepts they do not understand. **Max Maths Primary: A Singapore Approach Second Edition** is designed to help students develop high-level cognitive skills which will enable greater progression.

The second edition has been updated to the current Cambridge syllabus. It retains all of the engaging and well-loved features that bring the Singapore Approach to your international school classroom.

How Max Maths Primary Adds Up

- A consistent approach is used throughout the resources to develop thinking and problem-solving skills through both independent and collaborative learning.
- Each resource uses real-world contexts to teach mathematical concepts and activities that support the Concrete-Pictorial-Abstract (CPA) approach. This approach has been proven to develop highly skilled young mathematicians.
- There are clear explanations of new mathematical terms, with colour illustrations to support students whose first language is not English.
- The Teacher's Guide also supports teachers by highlighting the language that needs to be learned in each unit, giving both learner and teacher the tools they need to succeed.
- It is a 100% match to the Cambridge Primary Maths Curriculum Framework (stages 1-6).
- It is an accessible and effective approach with carefully scaffolded activities throughout, ensuring all pupils understand each concept and are confident to move to the next stage.
- To support the Teacher's Guide, there are two additional resources which provide step-by-step guidance to help embed the Bar Modelling Method. Written by Singapore Maths expert, Andrew Jeffrey, it is an essential tool for using this highly effective method to support pupil attainment.
- It is supported by two specially designed professional development courses. These courses are designed to explain the concepts of Asian Maths pedagogy and how to use them to teach in the classroom.
- The characters in the books are a key way of involving pupils and they form a narrative from Years 1 to 6 as they progress through the content.



New Features

The second edition has been updated to the current Cambridge Curriculum. Units have been reordered to match the new curriculum learning journey and the content has been updated to cover the new Learning Objectives.

Below are some examples of new features and content from across the series.

Increased focus on Odd and Even numbers

Covers subtracting fractions with the same denominator

Using symbols to represent quantities in addition and subtraction calculations

New unit: Area and Perimeter

Practical activities for measuring objects in kg and g

Organising, representing and interpreting dot plots

Composing, decomposing and regrouping numbers with up to 3 decimal places

Teacher Training

Massive Open Online Courses (MOOCs)

At Macmillan Education, our vision is to deliver innovative solutions that will drive student performance and help educators and institutions to achieve excellent results. Providing training that is relevant and accessible to all is one key way we can support those schools that are using our materials.

In partnership with the University of Southampton and Future Learn, we have created ***two free online courses (MOOCs)*** to support teachers who are interested in finding out more about why Asian Maths is so successful and how to implement this methodology within the classroom.

Our MOOCs:

- World Class Maths: Asian Teaching Methods
- World Class Maths: Asian Teaching Practice

Both MOOCs include:

- Course content developed and led by a world-leading expert in maths education
- Coverage of both theory and classroom application
- Options to follow a set timetable or to learn at a flexible pace
- A forum for exchanging ideas and asking questions
- Optional certificate of completion (fee applicable)

For more information, please visit www.macmillanic.com

UNIVERSITY OF Southampton

Future Learn

Teacher Training Options

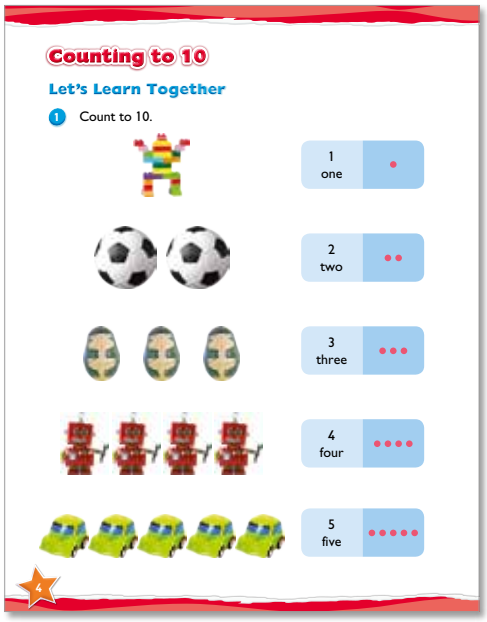
Please contact us via international.curriculum@macmillaneducation.com to discuss more about our partnership with NILE and what we can offer you for supporting teachers and learners whose first language may not be English.

Student Books (Print and Digital bundle)

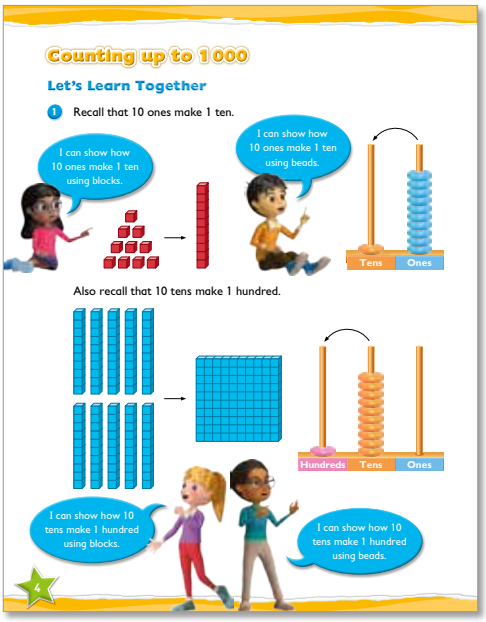
The Student Books form the basis for classroom learning. They are highly engaging with a 4-colour illustrative design featuring the Max Maths team. They employ key aspects of the Singapore Approach with CPA and Bar Modeling methodologies.

The Student Books are underpinned by investigative and problem-solving approaches to real-world problems, giving learners the opportunity to develop communication and collaboration skills in their maths classes. Additional practice is clearly linked to the workbooks. End-of-topic activities test language comprehension as well as topic knowledge.

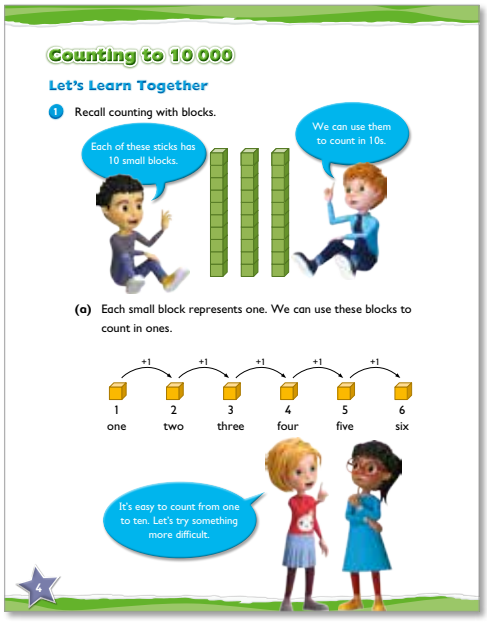
Digital Student Books are now included alongside the printed Student Books.



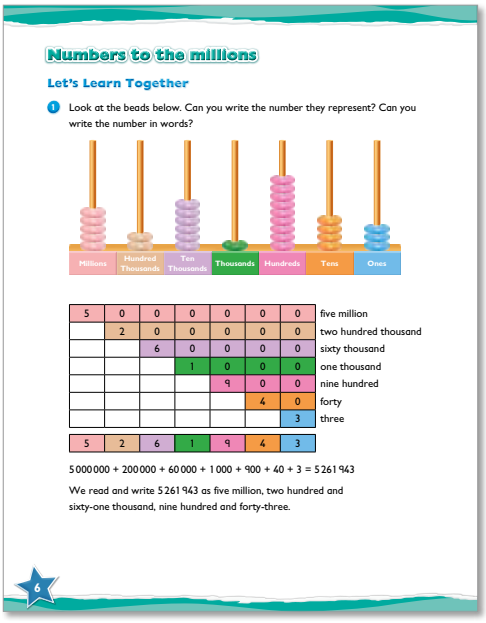
Student Book 1



Student Book 3



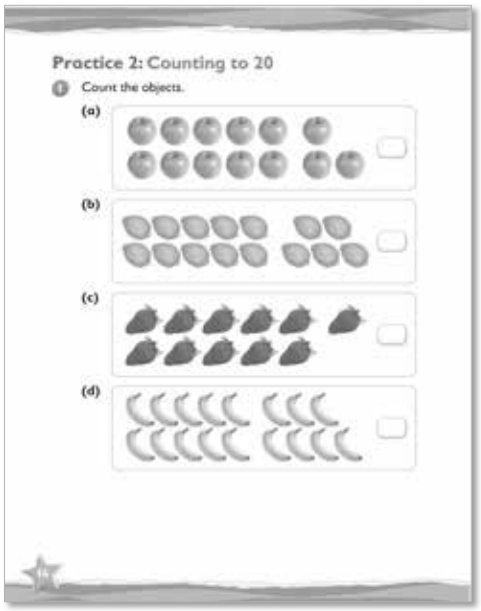
Student Book 4



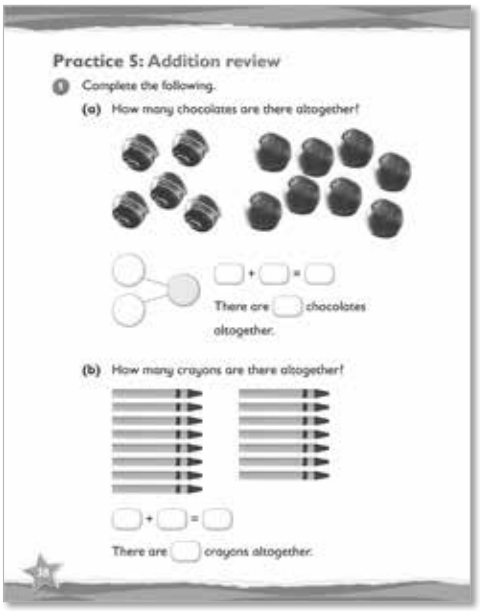
Student Book 6

Workbooks

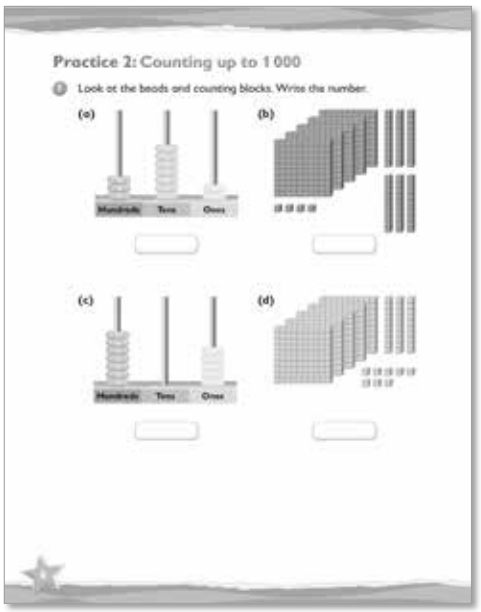
The Workbooks support learners through the objectives in the Cambridge maths curriculum framework, providing extra practice to complement the Student Books and reinforce understanding. The Workbooks encourage learners in practical problem-solving activities and offer structured exercises to embed conceptual learning.



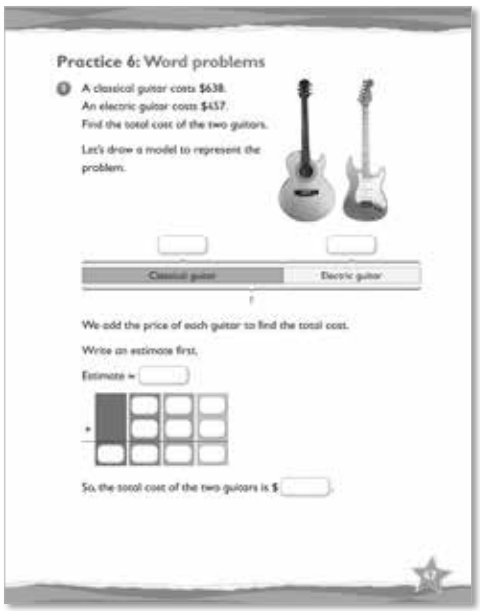
Workbook 1



Workbook 2



Workbook 3

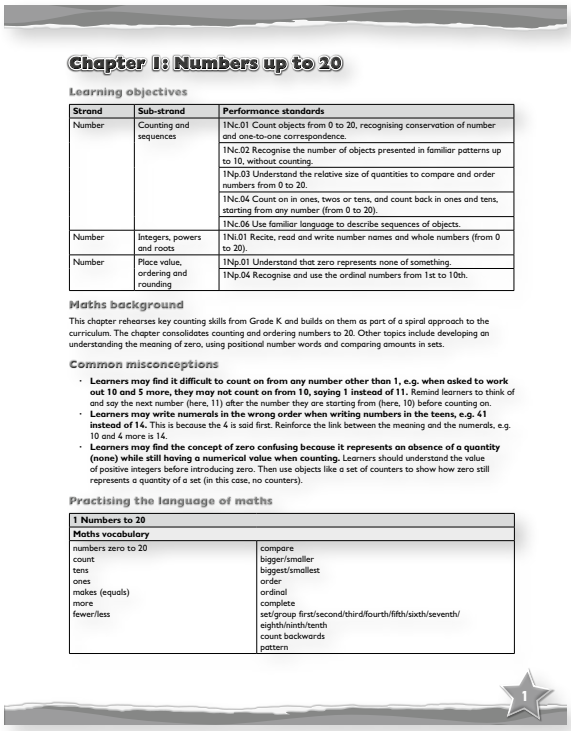


Workbook 4

Teacher's Guide

The Teacher's Guide comes with full support to guide teachers through each topic, including English language support. A suggested instructional approach, assessment, additional class activities and full answers are provided.

Updated to support curriculum changes



Teacher's Presentation Kit

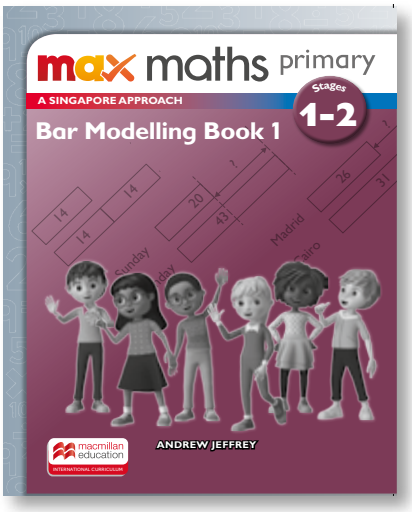
The Teacher's Presentation Kit is a digital resource that offers a suite of easy-to-use materials for interactive whiteboards or projectors. It includes an enhanced digital version of the Student Books for front-of-class teaching as well as downloadable and printable activity sheets for whole class engagement and additional vocabulary support.

- Flashcards show images that help illustrate the key mathematical concepts covered in the Student Books.
- Teachers can use flashcards to support a variety of class games and activities to reinforce students' concept acquisition.
- The scope and sequence provides an accurate mapping of all components of Max Maths Primary to the Cambridge International Primary Curriculum. This will help when it comes to short and medium-term planning and getting the most out of the Max Maths Primary series.
- Throughout each stage, there are downloadable and printable skills sheets, focusing on problem-solving skills. Each skills sheet will supplement a Student Book topic.
- Accompanying Teacher Notes offer full teacher support for each skills sheet.
- Teachers will be provided with word cards showing images of vocabulary and sentence structures. Teachers can use the flashcards to support a variety of class games and activities to reinforce students' language learning.
- Bar Modelling Books – highly effective resources with explicit instruction to support teaching via this method.
- The Teacher's Presentation Kit includes assessments support.

Bar Modelling Resources

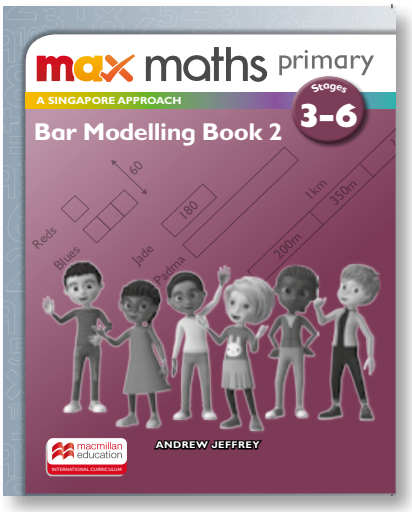
Bar Modelling is a powerful and versatile strategy that lends itself to a wide range of mathematical problems. It draws on the CPA approach by helping students progress from exploring problems through concrete objects to pictorial representations.

These practical resources have been written by Singapore maths expert, Andrew Jeffrey, to provide teachers with the confidence to deliver effective maths lessons.



STAGES 1-2

- An introduction to bar modelling - what it is, what it can be used for, and why it is so effective
- Step-by-step instruction on how to implement bar modelling
- Effective worked examples to give confidence
- Examples of how to add challenge and greater depth questions
- Explicit support to show you how to use Bar Modelling in Stages 1 and 2 and how to put it into practice in the classroom



STAGES 3-6

- The role of the proven CPA approach in Mathematics
- What pupils should know by the start of Stage 3
- How bar modelling works for Stages 3 – 6
- Step-by-step worked examples
- Practice questions to help you get started quickly with your pupils

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Digital Student Books	9781035149339	9781035149353	9781035149384	9781035149414	9781035149445	9781035149476
Workbooks	9781035116935	9781035116959	9781035116966	9781035116980	9781035117000	9781035117024
Digital Teacher's Guide	9781035138982	9781035139163	9781035139200	9781035146383	9781035146390	9781035146406
Digital Teacher's Presentation Kit	9781035149322	9781035149377	9781035149407	9781035149438	9781035149469	9781035149490

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