New for 2017

max maths Primary
A Singapore Approach

MATCHED TO THE CAMBRIDGE INTERNATIONAL PRIMARY CURRICULUM

A complete course solution for the Cambridge Primary maths syllabus, specially designed to support learners in International and English-medium school settings.
About Macmillan Education
International Curriculum

At Macmillan Education our passion for learning has helped millions of learners around the world to achieve their ambitions by providing the highest quality content, in the most relevant, engaging and flexible formats.

Macmillan Education is part of the Springer Nature group that includes nature, Scientific American and Springer – all of which are prestigious brands in the fields of maths and science, and have published ground-breaking research for over 150 years.

Our combined publishing experience across subject areas and levels enables us to bring learners and teachers complete, and innovative solutions, and the best in world-class pedagogy.

Our promise is to deliver materials that:
- Match the syllabuses of the leading International curriculum providers
- Have been created by top specialists in maths, science and English
- Are designed with full English language support for teachers, students and parents whose first language is not English
- Provide guidance and support for parents so they can help their children at home
- Offer professional development and training for teachers
- Integrate assessment as a support for both teaching and learning

The Macmillan Education International Curriculum
COMPLETE SOLUTION
Welcome

Max Maths Primary – A Singapore Approach is specifically designed for International and English-medium schools that are following the Cambridge International Primary Curriculum.

Over 6 levels, Max Maths Primary – A Singapore Approach supports young learners with stimulating and engaging content that makes maths fun, while ensuring that every learner has a firm understanding of new concepts, and is progressing to their full potential.

The course adopts a Singaporean approach to mathematics, and offers activities that are carefully scaffolded to provide a solid foundation for new concepts before introducing more challenging activities that will develop thinking skills. In this way, teachers can be sure that every learner has fully mastered the topic before moving on.

Max Maths Primary – A Singapore Approach also offers full support for learners whose first language is not English. New mathematical terms are explained throughout, and full colour illustrations help learners understand the language of maths.

The syllabus at each stage addresses the learning objectives for the Cambridge International Primary Curriculum. The activities and exercises throughout the course are designed to develop problem-solving skills through independent and cooperative learning.

Take a Closer Look

Over the next few pages we will give you a full introduction to Max Maths Primary – A Singapore Approach.

There is a summary of the components and support available for the course, a description of our teacher-training offers, and sample material from Stages 1-4.
About the Course

At Macmillan Education we are committed not only to delivering outstanding classroom materials, but also to providing support for digital learning, teacher-training, parents, and assessment.

Max Maths Primary – A Singapore Approach includes a range of materials to offer schools a complete solution for teaching primary maths in an international school or English-medium setting.

Components

Student Books 1-6
The Max Maths Primary Student Books form the basis for classroom learning. They cover the learning objectives for the Cambridge International Primary Curriculum, and are presented in full-colour throughout.

Digital Student Books 1-6
The Max Maths Primary Digital Student Books are available to offer an alternative to traditional print books. They are ideal for schools who regularly use PCs and tablets in the classroom.

Workbooks 1-6
The Max Maths Primary Workbooks are designed for extended practice and consolidation in class, or at home. Corresponding Workbook practice is clearly signposted throughout the Student Book.

Teacher’s Guides 1-6
The Max Maths Primary Teacher’s Guides provide a suggested instructional approach for each chapter and topic, additional class activities for each lesson, and full answer keys.

Teacher’s Presentation Kits 1-6
The Max Maths Primary Teacher’s Presentation Kit offers a suite of easy-to-use, downloadable materials for interactive whiteboards or projectors. It includes a digital Student Book for front-of-class presentation and practice, as well as step-by-step problem solutions and answer keys.

Additional Support

Assessment
Both formative and summative assessment are integrated throughout Max Maths Primary. Each chapter’s structure and content allows teachers to assess progress before and after each topic. Activities and tasks are carefully aligned with Cambridge exam-style questions to help prepare students for the exam itself.

Parent Support
Home Journals are available for Max Maths Primary. These are designed to help involve parents in the learning process, and provide a framework for parents to help their children outside the classroom.

Teacher-training
Max Maths Primary is supported by a robust teacher-training programme, with both online and face-to-face options. Full details can be found on p. 5.

*Forthcoming 2018
Teacher -Training

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.

Max Maths Primary - A Singapore Approach is supported by two different training offers:

1. A specially designed MOOC (Massive Open Online Course) to deliver online training in world-class maths pedagogy and best practice.

2. Online and face-to-face training to support teachers who are teaching maths through the English medium.

Our training offers will be available from Autumn 2017. Updates and new content will be added early 2018. You can register your interest at internationalcurriculum@macmillan.com

World Class Maths: Asian Maths Pedagogy

Our MOOC is designed to present mathematics pedagogies and best practices implemented in the highest performing countries and education systems. The programme is designed for teachers who may be implementing Asian Maths pedagogy and methods at their school, school administrators and individuals such as parents, who are generally interested in knowing more about Asian maths approaches.

The course is led by Professor Lianghuo Fan who is Professor in Education at the University of Southampton, UK. He has extensive international experience and is recognised as one of the world’s leading experts in mathematics education, with a particular focus on curriculum, classroom instruction, assessment, teacher professional development and comparison of East and West.

Registration to the MOOC is free and open to teachers, administrators and parents who would like to learn more about Asian maths approaches. The course will cover both theory and practice. Participants can follow a timetable, or learn flexibly at their own pace. There will also be a forum for educators to exchange ideas and ask questions.

Teaching through English: Primary Maths

We offer both online and face-to-face training in conjunction with our training partner, NILE. This programme is specifically designed for international or English-medium schools where teachers and learners may not have English as a first language.

The online course is comprised of 8 modules which are taught over 8 weeks on our innovative professional development platform. The course content addresses the language of maths, and aims to help teachers develop confidence in explaining ideas and concepts in English to achieve the best learning outcomes for students whose first language is not English. We offer a fully-tutored online course, and schools are charged on a per tutor basis.

We also offer bespoke face-to-face options for the course which can be delivered locally, or in the UK.

Please contact us at internationalcurriculum@macmillan.com for course dates, pricing and availability, or to discuss a bespoke training option for your school.
Problem-solving

In the spirit of Cambridge exams, students are exposed to practical problem solving activities that test their knowledge and understanding of concepts.
You will learn to...
- use concrete materials or pictures to show equal sharing
- understand that division can leave some left over.

### Equal Sharing

Let’s Learn Together

1. Sam has 8 hazelnuts. Let’s share them equally between 4 learners.

   Each learner gets 2 hazelnuts. We can write this in a special way. Below is a division sentence.

   \[ 8 \div 4 = 2 \]

   We say this as ‘8 divided by 4 equals 2’.

   This sign means ‘divided by’.

### Practice 1: Equal sharing

1. Circle the objects to make equal groups. Write the division equation.

   - (a) Circle groups of 3 cupcakes.
   - (b) Circle groups of 2 muffins.

### Example

- Circle groups of 3 cupcakes.

\[ 12 \div 3 = 4 \]

- Circle groups of 2 muffins.

\[ \square \times \square = \square \]

### Chapter 6: Division

Practice 1: Equal sharing

1. Circle the objects to make equal groups. Write the division equation.

   Example:

   - Circle groups of 3 cupcakes.

\[ 12 \div 3 = 4 \]

- Circle groups of 2 muffins.

\[ \square \times \square = \square \]

### Teacher Support

Teacher’s Guides clearly outline suggested teaching approaches and activities, and include answer keys.
Stages 3 and 4

Real-world Context
New concepts are presented pictorially using real-world objects to aid understanding.

**CPA: Concrete Pictorial Abstract**
Activities that support the CPA approach are included throughout – students are asked to manipulate objects to increase their knowledge and understanding.

**Collaborative Learning**
Students are encouraged to interact with their environment, and together find examples of new concepts in the real-world.
Visual Support
Even at the higher levels, learners are supported visually with more complex mathematical concepts.

Stages 3 and 4

Workbook links
Workbook links are noted throughout each chapter, and provide review and consolidation exercises for every topic.

Teacher Support
Teacher’s Guides clearly outline suggested teaching approaches and activities, and include answer keys.

Games and Fun
Game-playing and competition amongst groups is included to add an element of fun, and develop a more positive attitude to learning.
# A Singapore Approach

To place an order please contact your local Macmillan office. Details can be found on our website at [www.macmillaneducation.com](http://www.macmillaneducation.com). In case of difficulty, please email us at help@macmillan.com.

For further information about the course, or to request sample copies, please contact us at: internationalcurriculum@macmillan.com

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