

# Modern Primary Mathematics



**'21st Century Modern Mathematics' and  
'現代小學數學'**



Mathematics textbooks the most widely adopted by  
primary schools in Hong Kong.



Modern Educational Research Society, Ltd.

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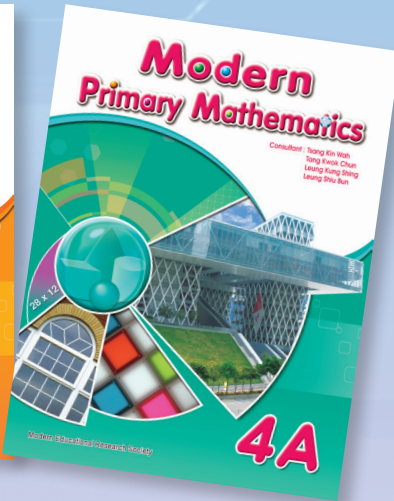
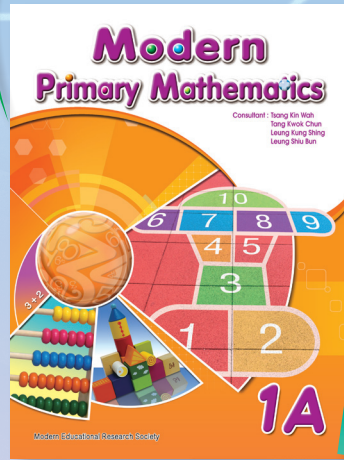
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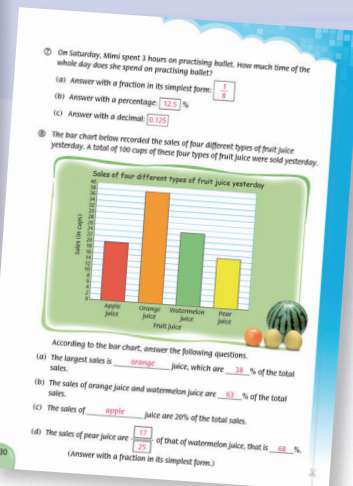
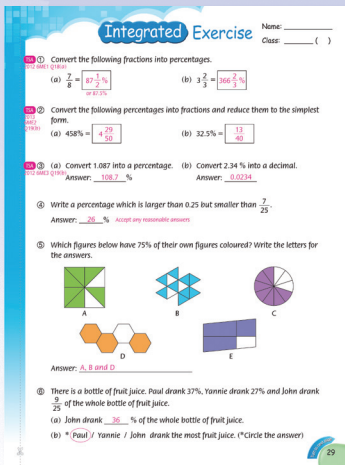
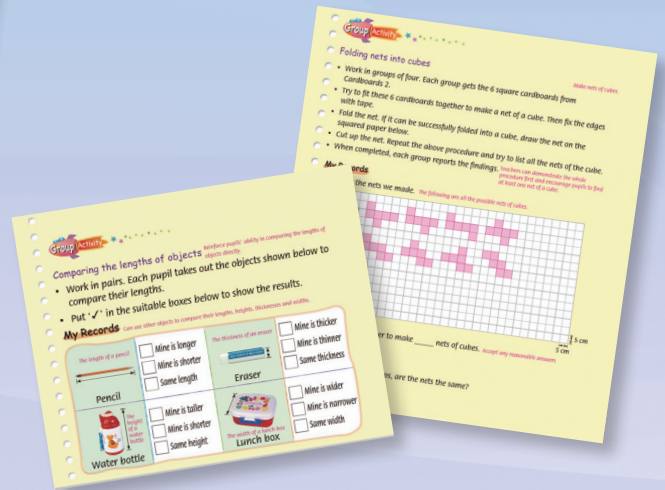
URL: <http://www.mers.hk>

**Textbooks**



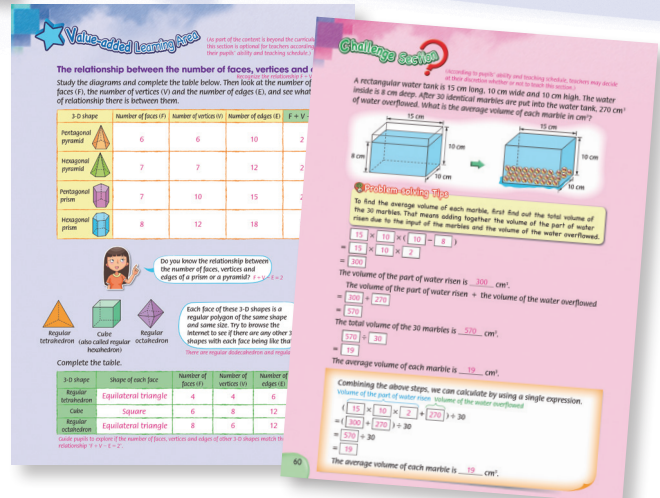
Four textbooks for each year level.

Provides 'Group Activity', enhancing pupils' learning in small groups.



Each module includes an 'Integrated Exercise', which merges the acquired knowledge in different Learning Dimensions, so as to train and test pupils' ability to integrate and apply different mathematical knowledge to solve problems.

Includes extended contents (namely 'Challenge Section' and 'Valued-added Learning Area') for further learning, targeted at expanding pupils' mathematical knowledge and developing their different problem-solving skills.



The contents of this series of textbooks are translated from the Chinese version '現代小學數學'.

Each Unit has an e-Book version, and users can switch between the two language versions anytime.

**18 Area**

Learn to:

- Understand the overlapping method to compare areas.
- Use improved ways to compare areas.
- Understand the method of counting squares to measure area.

**Using the overlapping method to compare areas**  
Three children are flying kites at the countryside.

Ceci's kite, Peter's kite, Carmen's kite

The size of a surface is called the **area** of the surface.

A surface is bigger means its area is larger.  
A surface is smaller means its area is smaller.

Compare the areas of the kites of Ceci and Peter.  
The kite of ( Ceci / Peter ) is smaller.  
Compare the areas of the kites of Ceci and Carmen.  
The kite of ( Ceci / Carmen ) is smaller.  
Therefore, the area of the kite of ( Ceci / Peter / Carmen ) is the smallest.

Ceci overlaps her kite with the other kites to compare their sizes.

Ceci's kite, Peter's kite, Carmen's kite

A kite of a solid and a closed plane figure are examples of surface.

Can you compare the sizes of the three kites?

Chinese Version / English Version

**18 面積的認識**

學習目標:

- 理解疊合法比較面積。
- 用改善的方法比較面積。
- 理解用數方格的方法測量面積。

**用疊合法比較面積**  
三位小朋友到郊外放風箏。

比一比，誰的風箏面積最大，誰的風箏面積最小。

比較 Ceci 和 Peter 的風箏。  
( Ceci / Peter ) 的風箏面積較小。  
比較 Ceci 和 Carmen 的風箏。  
( Ceci / Carmen ) 的風箏面積較小。  
所以，( Ceci / Peter / Carmen ) 的風箏面積最小。

把 Ceci 的風箏疊在 Peter 和 Carmen 的風箏上面，一一比較面積大小。

面積大的風箏，它的面積較大。  
面積小的風箏，它的面積較小。

一個風箏，即它的面積較大。  
一個風箏，即它的面積較小。

比較 Ceci 和 Peter 的風箏。  
( Ceci / Peter ) 的風箏面積較小。  
比較 Ceci 和 Carmen 的風箏。  
( Ceci / Carmen ) 的風箏面積較小。  
所以，( Ceci / Peter / Carmen ) 的風箏面積最小。

把 Ceci 的風箏疊在 Peter 和 Carmen 的風箏上面，一一比較面積大小。  
面積大的風箏，它的面積較大。  
面積小的風箏，它的面積較小。

Can you compare the sizes of the three kites?

Chinese Version / English Version

e-Book also contains many electronic tools.

**MERS**

Digital clock showing 2:38:25

12-hour time

Buttons: Digital, Seconds, Reset

**MERS**

Calculator interface showing fraction operations:

$$2\frac{1}{2} \times \frac{2}{3} = \frac{2 \times 2}{2 \times 3} \times \frac{1}{4} = \frac{2 \times 1}{3 \times 2} \times \frac{1}{1} = \frac{2 \times 1}{3 \times 1} = \frac{2}{3}$$

Buttons: Print, Save, Next, Fraction, Decimal, Mixed, Improper, Close

**MERS Abacus (5 Bars)**

Display: 2950

Buttons: Hide number, Reset, Carry, Borrow

**MERS Electronic Pinboard**

Grid with a blue triangle drawn on it.

Buttons: Draw, Select, Flip L/R, Flip U/D, Fill, Copy, Delete

Mode: 16-pin x 4

Buttons: Reset

# Modern Primary Mathematics Teachers' Website

<http://pmaths.mers.hk>

Provides 'Pre-lesson Materials', 'Classroom Materials', 'After Class Materials', 'Enhancement Materials' and 'Other Materials', catering for the needs of the different stages of teaching and learning.



**MERS Modern Primary Mathematics**  
Modern Education Resources Platform

Welcome! [chian](#)  
[System Property](#) [Log-out](#)

**Teachers'Web**

**Pre-lesson Materials**

- Teaching Plans
- Reference Websites
- Image Bank

**Classroom Materials**

- PowerPoint
- e-Books
- Enrichment Topics
- Additional Topics

**After Class Materials**

- Assessment Papers
- Maths Games
- Consolidating Worksheets
- Basic Worksheets
- Advanced Worksheets

**Enhancement Materials**

- Extended Tasks
- Problem-solving Worksheets

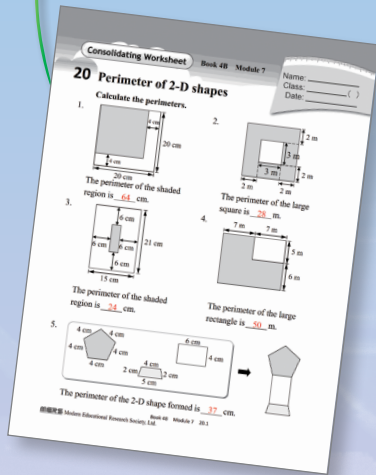
**Other Materials**

- STEM Education
- Self-Directed Learning Log
- Weekly Challenge

**Keyword Search**

[Search](#)

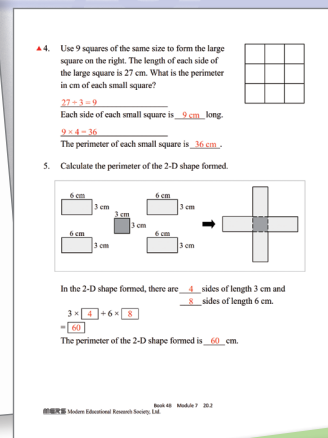
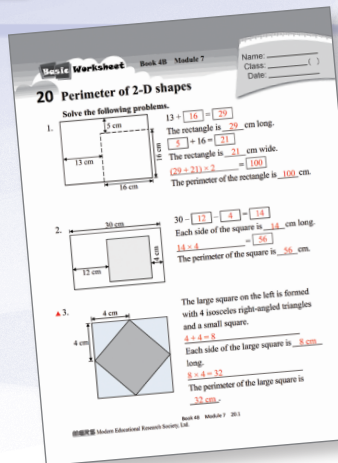
# Consolidating Worksheets



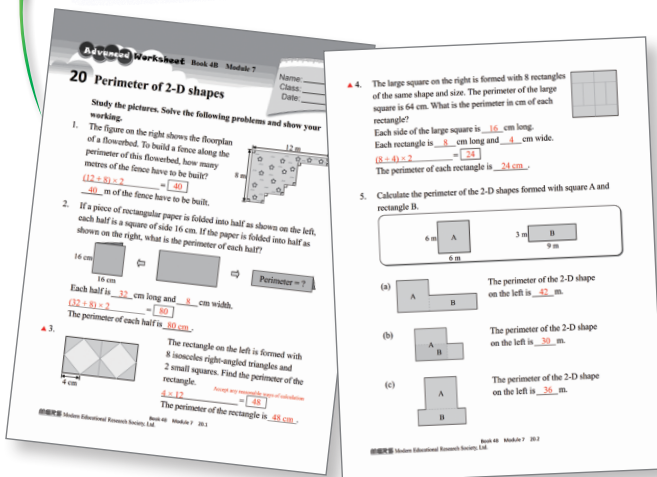
- ✓ For consolidating pupils' ability in tackling different learning objectives of each Unit.
- ✓ Problems are mainly of 'medium' level.

# Basic Worksheets

- ✓ For less competence pupils.
- ✓ Problems are mainly of 'basic' level.



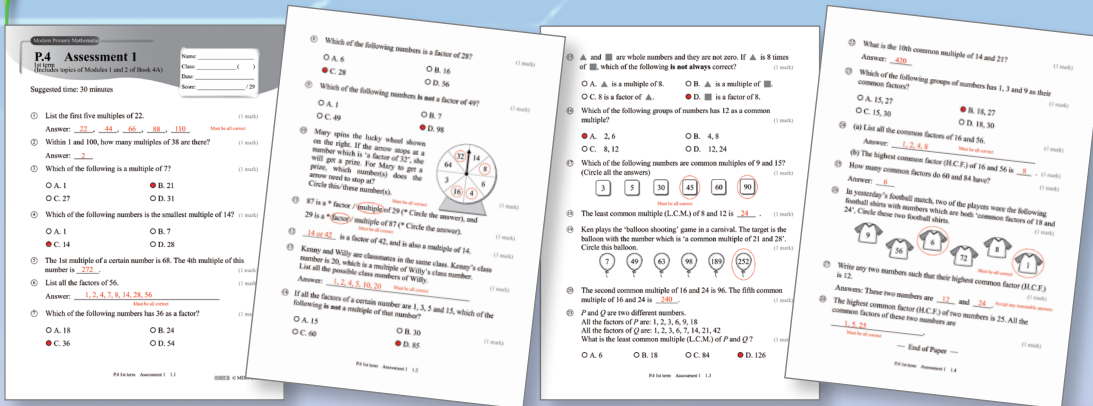
# Advanced Worksheets



The Basic and Advanced Worksheets of the same Unit may contain questions which are **worded similarly**, for teachers to choose the appropriate materials according to the learning ability of individual pupils.

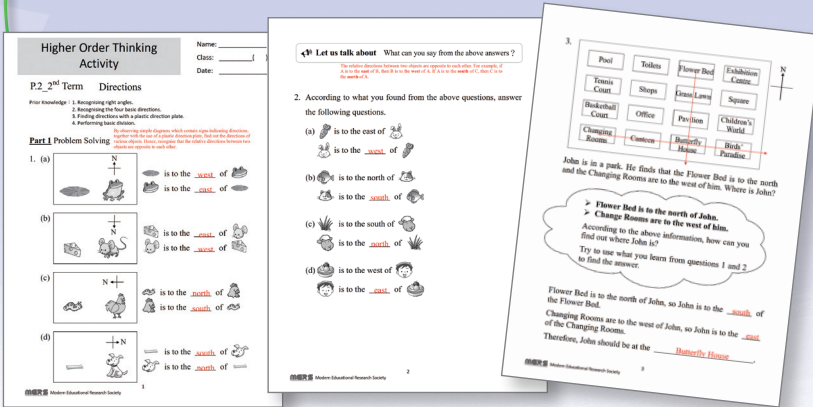
- ✓ For more competence pupils.
- ✓ Problems are mainly of 'advanced' level.

# Assessment Papers



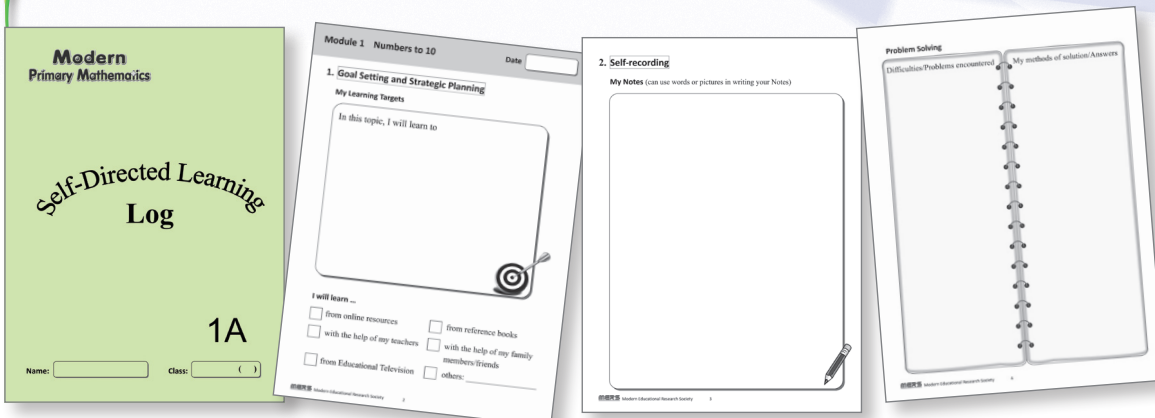
Provides 4 Assessments and 1 Summative Assessment in each school term, altogether 10 papers in each year level.

# Higher Order Thinking Activity



Diverse activities that help developing pupils' generic skills such as high order thinking, study, creativity, problem solving, critical thinking and numeracy skills.

# Self-Directed Learning Log



Provides log sheets for pupils to record their own learning progress for each module, and develops the pupils' skills in organisation and self-management.

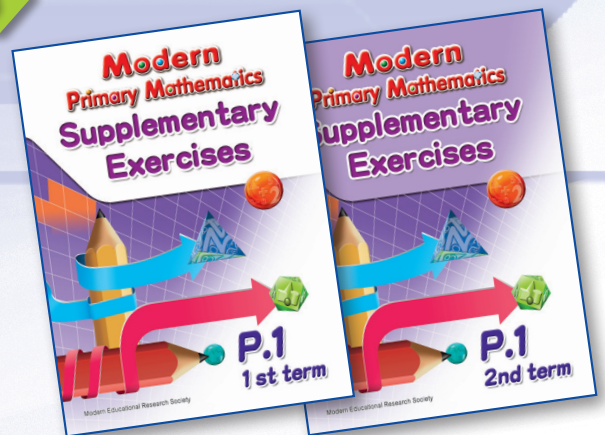
## Weekly Challenge



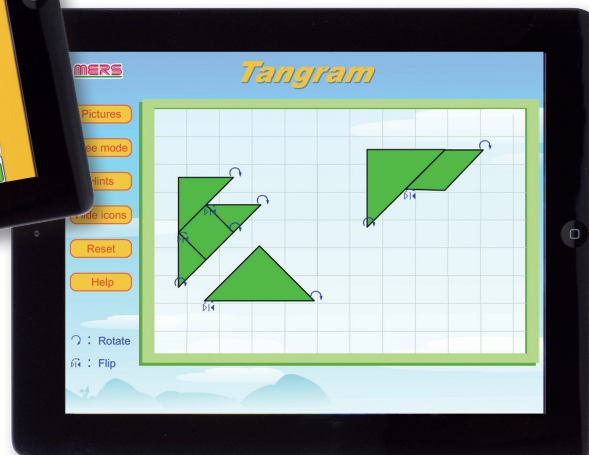
- Students' web includes 'Weekly Challenge'. It provides about 10 questions every week to enhance pupils' practice.

## Supplementary Exercises

- Two books for each year level.
- Provides exercises for consolidating pupils' mathematical concepts.



## Apps and e-Learning Activities



# Mathematics Self-directed Reading Series

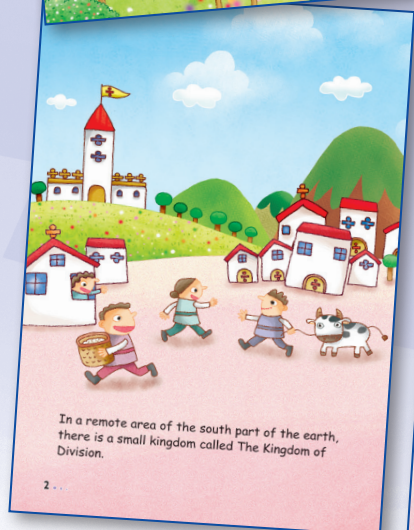


✔ The whole series of booklets is divided into three levels:

- Level 1 for P.1 and P.2
- Level 2 for P.3 and P.4
- Level 3 for P.5 and P.6

and four categories for each level:

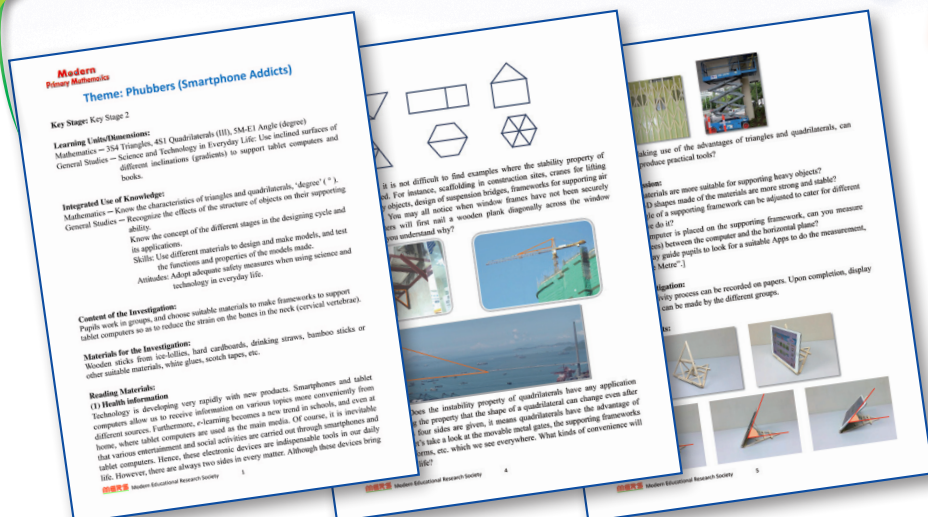
- ✳ Stories
- ✳ Math Micropedia
- ✳ Children's Literature
- ✳ People



✔ Each booklet is in a **bilingual** format with both Chinese and English versions, so as to provide children with cross-language learning materials.

✔ Provide **worksheets** that include mind stimulating and open-ended Mathematics questions.

## STEM Education



✔ Provides Mathematics learning activities, enhancing pupils' ability to integrate and apply knowledge and skills in the fields of **S**cience, **T**echnology, **E**ngineering and **M**athematics.