SCHOLASTIC

PR1ME Mathematics

Grades 1–6

A World-Class Online Mathematics Resource

NEW

Scholastic PR1ME Mathematics is based on the pedagogical approach of the innovative and effective teaching and learning practices of top-performing nations like Singapore, Republic of Korea, and Hong Kong.

Aligns with Canadian provincial curricula, including: Ontario, B.C., Alberta, and Nova Scotia

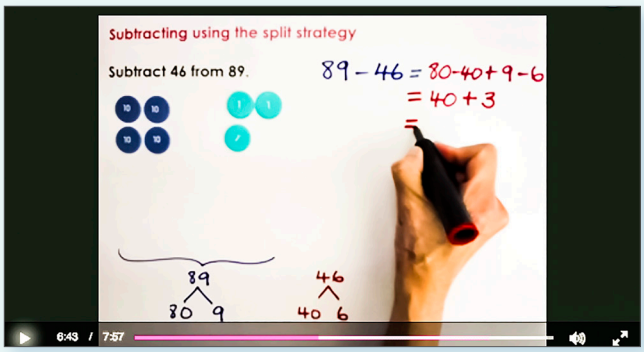
Concrete-Pictorial-Abstract

PR1ME Mathematics anchors students' **real-world concrete** experiences to **pictorial** representations and **abstract** mathematical language. **A spiral curriculum scaffolds new learning and develops deep understandings of math.**

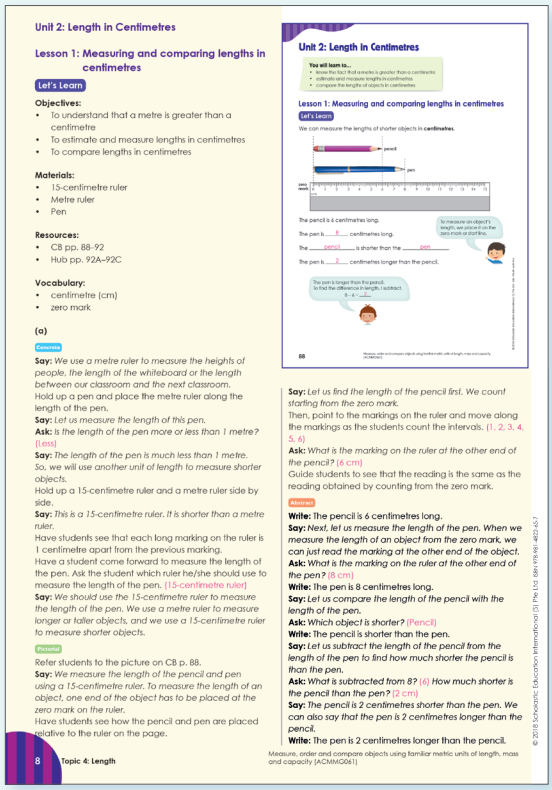
Key Digital Features:

- **Online Student HUB:** Includes core lessons tied to provincial curricula and extension lessons that scaffold for deeper understandings; two sets per grade
- **Online Teacher HUB:** Topic overviews, scope and sequence, lesson notes, and interactive student editions to use online and with IWBs
- **Teacher Training Videos:** Demonstrate lessons for each unit in every grade (accessed through Teacher HUB)
- **Supplementary Activities:** Downloadable Assessment Evaluations and Practice pages

Over 1,100 Teacher videos! Each video includes 'think alouds' that model the Scholastic PR1ME pedagogy for the concept being taught.



The Lesson Notes provide practical teaching support for implementing the Scholastic PR1ME pedagogy.


Unit 2: Length in Centimetres

Lesson 1: Measuring and comparing lengths in centimetres

Let's Learn

Objectives:
- To understand that a metre is greater than a centimetre
- To estimate and measure lengths in centimetres
- To compare lengths in centimetres

Materials:
- 15-centimetre ruler
- Metre ruler
- Pen

Resources:
- CB pp. 88–92
- Hub pp. 92A–92C

Vocabulary:
- centimetre (cm)
- zero mark

(a)

Concrete

Say: We use a metre ruler to measure the heights of people, the length of the whiteboard or the length between our classroom and the next classroom. Hold up a pen and place the metre ruler along the length of the pen.

Say: Let us measure the length of this pen.

Ask: Is the length of the pen more or less than 1 metre? (Less)

Say: The length of the pen is much less than 1 metre. So, we will use another unit of length to measure shorter objects. Hold up a 15-centimetre ruler and a metre ruler side by side.

Say: This is a 15-centimetre ruler. It is shorter than a metre ruler. Have students see that each long marking on the ruler is 1 centimetre apart from the previous marking. Have a student come forward to measure the length of the pen. Ask the student which ruler he/she should use to measure the length of the pen. (15-centimetre ruler)

Say: We should use the 15-centimetre ruler to measure the length of the pen. We use a metre ruler to measure longer or taller objects, and we use a 15-centimetre ruler to measure shorter objects.

Pictorial

Refer students to the picture on CB p. 88.

Say: We measure the length of the pencil and pen using a 15-centimetre ruler. To measure the length of an object, one end of the object has to be placed at the zero mark on the ruler. Have students see how the pencil and pen are placed relative to the ruler on the page.

Unit 2: Length in Centimetres

You will learn to...
- know the fact that a metre is greater than a centimetre.
- estimate and measure lengths in centimetres.
- compare the lengths of objects in centimetres.

Lesson 1: Measuring and comparing lengths in centimetres

Let's Learn

We can measure the lengths of shorter objects in centimetres.

The pencil is 6 centimetres long.
The pen is 8 centimetres long.
The pencil is shorter than the pen.
The pen is 2 centimetres longer than the pencil.

To measure an object's length, we place it on the zero mark or start line.

The pen is longer than the pencil. To find the difference in length, I subtract. 8 − 6 = 2

88

Say: Let us find the length of the pencil first. We count starting from the zero mark. Then, point to the markings on the ruler and move along the markings as the students count the intervals. (1, 2, 3, 4, 5, 6)

Ask: What is the marking on the ruler at the other end of the pencil? (6 cm)

Guide students to see that the reading is the same as the reading obtained by counting from the zero mark.

Abstract

Write: The pencil is 6 centimetres long.

Say: Next, let us measure the length of the pen. When we measure the length of an object from the zero mark, we can just read the marking at the other end of the object.

Ask: What is the marking on the ruler at the other end of the pen? (8 cm)

Write: The pen is 8 centimetres long.

Say: Let us compare the length of the pencil with the length of the pen.

Ask: Which object is shorter? (Pencil)

Write: The pencil is shorter than the pen.

Say: Let us subtract the length of the pencil from the length of the pen to find how much shorter the pencil is than the pen.

Ask: What is subtracted from 8? (6) How much shorter is the pencil than the pen? (2 cm)

Say: The pencil is 2 centimetres shorter than the pen. We can also say that the pen is 2 centimetres longer than the pencil.

Write: The pen is 2 centimetres longer than the pencil.

Measure, order and compare objects using familiar metric units of length, mass and capacity (ACMMG061)

8 Topic 4: Length

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Scholastic PR1ME Mathematics is available as an annual subscription. Price is $2,000/ per school and includes complete access to all grades. Contact your Scholastic Education Consultant for board-wide purchases or for a Demo.

Titles & prices are subject to change

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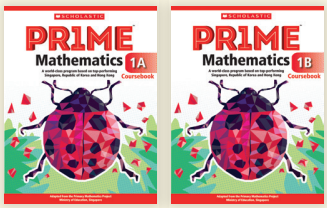
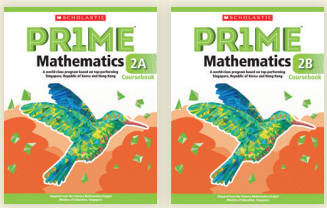
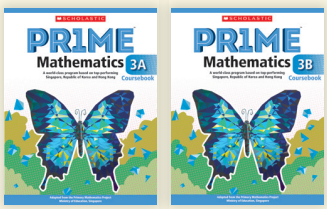
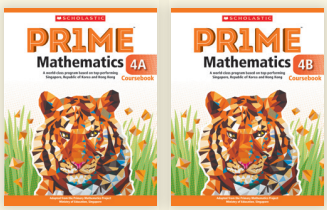
PROGRAM COMPONENTS

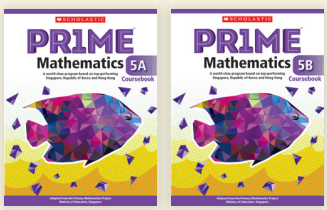
Online Student HUB

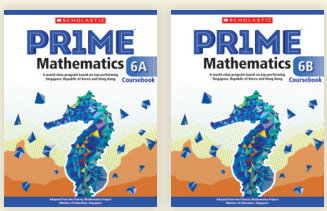






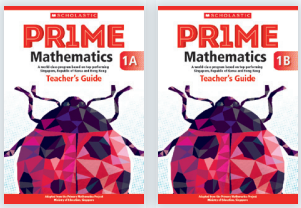


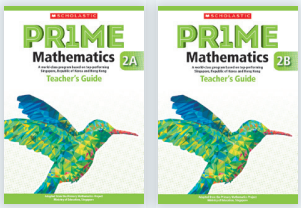


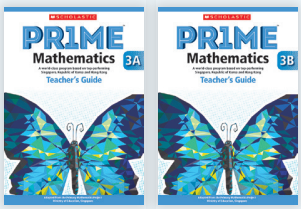


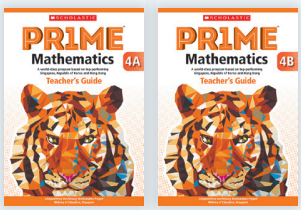
The Online Student HUB includes core materials that help introduce and develop concepts and skills to mastery.

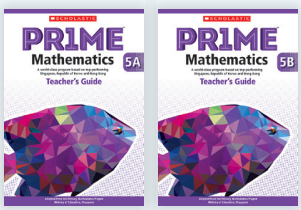
Online Teacher HUB

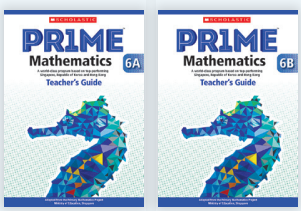












Each grade is made up of two digital teacher's guide, available through the Online Teacher HUB. Comprehensive lesson plans and lesson notes are included to support student material.

Interactive Edition for Teachers

The Interactive Edition enables teachers to show and hide answers in the online student material. Designed for use with interactive whiteboards or computers.

A COMPREHENSIVE AND PROVEN APPROACH THAT WORKS!

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- Develops metacognition and mathematical thinking
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SCHOLASTIC PRIME Mathematics

DIGITAL RESOURCES

PRIME MATHEMATICS

GRADE 1–6

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