Primary Maths Series, New Edition Scheme of Work - Year 1

The New Edition of the **Maths** — **No Problem!** Primary Maths Series is fully aligned to the 2014 English national curriculum for maths and subsequent non-statutory guidance. This Scheme of Work outlines the content and topic order within Year 1 and indicates the level of depth needed to teach maths for mastery. It can also help you and your school to plan and monitor progress.

A tried and tested structure

Unlike many free schemes of work, the **Maths** — **No Problem!** syllabus is based on the model developed in Singapore, which has been tested and refined over the last 30 years.

- Founded on the learning theories of Piaget, Dienes, Bruner, Skemp and Vygotsky.
- Reviewed by an expert team of consultants, including Dr Julie Alderton from Cambridge University and Dr Wong Khoon Yoong, former Head of Mathematics and Mathematics Education at the National Institute of Education, Singapore.
- Fully aligned with the 2014 English national curriculum for maths and the latest ready-to-progress guidance.

How to use our scheme of work

Our scheme of work demonstrates the spiral approach used in our programme, which builds pupils' depth of understanding and mathematical fluency without the need for rote learning. Learning is presented in small-step, logical sequences organised into individual lessons with a title indicating the focus of learning for that lesson. The sequence of lessons is carefully organised with clear lines of progression.

This scheme of work provides:

- An overview of the national curriculum topics covered during the school year by term.
- A full lesson breakdown for each national curriculum topic and the learning objective for each lesson.

The topics are colour coded to reflect the national curriculum content domain strands. This also allows you to see when the different topics are introduced and revisited.

Please note that the time allocated to each topic is only provided as a guide and is not meant to be prescriptive. The concepts are broken down into a number of lessons, which offer small-step progression for the most struggling of learners. As such, teachers can use their professional judgement to combine two consecutive lessons into one session as appropriate for their learners. Though teachers can merge lessons within a chapter, we do not recommend skipping or combining chapters.

What other support is available

The scheme of work provides a researched structure, which is ideal for teachers who are confident teaching maths for mastery and have received **Maths** — **No Problem!** professional development.

Schools that don't always have the time to create their own lesson content should consider using our Primary Maths Series textbooks and workbooks. The series provides carefully varied exercises, which are designed to deepen pupils' understanding, and is complemented by online Teacher Guides, which provides a step-by-step guide to each lesson, including assessment and differentiation support.

For a free demo of our Primary Maths Series go to www.mathsnoproblem.com/demo

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Primary Maths Series - Year 1 at a Glance

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 10 LESSON BREAKDOWN	Calculations: Addition and Subtraction within 20 LESSON BREAKDOWN	Calculations: Multiplication LESSON BREAKDOWN
Week 2		Geometry – Properties of Shape: Shapes and Patterns	Calculations: Division LESSON BREAKDOWN
Week 3		LESSON BREAKDOWN	Fractions: Fractions LESSON BREAKDOWN
Week 4		Measurement: Height and Length LESSON BREAKDOWN	Number and Place Value: Numbers to 100
Week 5	Calculations: Addition and Subtraction LESSON BREAKDOWN	Revision and Mid-year (A) Tests	LESSON BREAKDOWN
Week 6			Measurement: Time LESSON BREAKDOWN
Week 7		Review and Remediation	Measurement: Money LESSON BREAKDOWN
Week 8	Geometry – Position and Direction: Positions	Number and Place Value:	Measurement: Volume and Capacity LESSON BREAKDOWN
Week 9	LESSON BREAKDOWN	Numbers to 40 LESSON BREAKDOWN	Measurement: Mass LESSON BREAKDOWN
Week 10	Number and Place Value: Numbers to 20 LESSON BREAKDOWN	Calculations: Addition	Geometry – Position and Direction: Space LESSON BREAKDOWN
Week 11	Calculations: Addition and	and Subtraction LESSON BREAKDOWN	Revision and End-of-year (B) Tests
Week 12	Subtraction within 20 LESSON BREAKDOWN	Calculations: Multiplication LESSON BREAKDOWN	Review and Remediation



Autumn Term - Textbook 1a

Number and Place Value: Numbers to 10

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 1 - Numbers to 10	Lesson 1 – Counting to 10	To be able to count numbers to 10 accurately – forward and backward.
Numbers to 10	Lesson 2 – Counting Objects to 10	To be able to count similar objects up to 10 with accuracy and fluency.
	Lesson 3 – Writing to 10	To be able to write all numbers to 10 with numerals and in words; to count only objects of the same name in a group.
	Lesson 4 – Counting to Zero	To be able to understand what zero represents and use it when counting.
	Lesson 5 – Comparing Numbers of Objects	To be able to compare different sets of objects and say which one has fewer, more or is equal.
	Lesson 6 – Ordering Numbers	To be able to order numbers to 10 and know which number is greater or is lesser in value.
	Lesson 7 – Comparing Numbers	To compare numbers using the terms '1 more' and '1 less'.
	Chapter consolidation	To practise various concepts that were covered in the chapter, from writing the numbers in words to consolidating the correct value of digits.
	2 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.



Autumn Term - Textbook 1a

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Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 - Number Bonds	Lesson 1 – Making Number Bonds	To understand that a number is made up of other numbers; to find as many ways possible to contruct a number.
	Lesson 2 – Making Number Stories	To use number bonds for storytelling.
	Chapter consolidation	To practise various concepts that were covered in the chapter.
	2 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.
Chapter 3 – Addition Within 10	Lesson 1 – Add by Using Number Bonds	To be able to add two different numbers within 10. Pupils will become familiar with the different vocabulary associated with addition.
	Lesson 2 – Add by Counting On	To add by counting on.
	Lesson 3 – Completing Number Sentences	To complete number sentences and gain an understanding of inverse operations.
	Lesson 4 – Making Addition Stories	To be able to make addition stories using correct vocabulary.
	Lesson 5 – Solving Picture Problems	To be able to solve addition problems through pictures.
	Chapter consolidation	Maths journal and reflection of learning throughout the chapter.
	3 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.
Chapter 4	Lesson 1 – Subtract by Crossing Out	To understand that subtraction can be done by crossing out or taking away.
- Subtraction within 10	Lesson 2 – Subtract by Using Number Bonds	To be able to subtract using number bonds.
	Lesson 3 – Subtract by Counting Back	To be able to solve a subtraction equation by counting back, using a number line as support.
	Lesson 4 – Making Subtraction Stories	To be able to make subtraction sentences.
	Lesson 5 – Solving Picture Problems	To be able to solve picture problems involving subtraction.
	Lesson 6 – Addition and Subtraction	To solve problems in the context of addition and subtraction and to find the corresponding number families.
	Chapter consolidation	To consolidate the learning of subtraction equations and fact families.
	4 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.



Autumn Term - Textbook 1a

Geometry – Position and Direction: Positions

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 5 – Positions	Lesson 1 – Naming Positions	To learn the appropriate positional language (ordinal numbers) for up to 10 positions.
	Lesson 2 – Naming Positions in Queues	To be able to name the positions in a queue.
	Lesson 3 – Naming Left and Right Positions	To be able to name positions, including left and right.
	Chapter consolidation	To consolidate the learning of positional language.
	3 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.

Autumn Term - Textbook 1a

Number and Place Value: Numbers to 20

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6	Lesson 1 – Counting to 20	To count numbers up to 20. The key strategy is to begin by making 10.
– Numbers to 20	Lesson 2 – Writing to 20	To recognise, read and write numbers up to 20 in words and numerals.
	Lesson 3 – Comparing Numbers	To use the terms 'greater than' or 'less than' to compare numbers within 20.
	Lesson 4 – Ordering Numbers	To be able to arrange numbers up to 20 in ascending and descending order.
	Lesson 5 – Number Patterns	To look for patterns with numbers up to 20, focusing on one more and one less than a number.
	Chapter consolidation	To practise various concepts that were covered in the chapter.
	4 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.

Autumn Term - Textbook 1a

Calculations: Addition and Subtraction within 20

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7	Lesson 1 – Add by Counting On	To learn to add by counting on from the largest number.
Addition andSubtraction	Lesson 2 – Add by Making 10	To add to numbers by first making 10 and then adding on the remainder.
within 20	Lesson 3 – Add by Adding Ones	To add by separating the ones and ten. This enables pupils to add the sum of the ones to the ten.
Lessons 1–5	Lesson 4 – Subtract by Counting Back	To learn how to subtract by counting back from the largest number.
	Lesson 5 – Subtract by Subtracting Ones	To learn how to subtract by subtracting from only the ones column.



Spring Term – Textbook 1b

Calculations: Addition and Subtraction within 20

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7	2 revision days	To revisit lessons 1–5.
Addition and Subtraction	Lesson 6 – Subtract from 10	To subtract a certain amount of ones from 10 rather than from the ones, as there are not enough ones.
within 20 Lessons 6–7	Lesson 7 – Addition and Subtraction Facts	To go through number facts derived from addition and subtraction sentences.
Lessons 0-7	Chapter consolidation	To practise various concepts covered in the chapter.



Spring Term - Textbook 1b

Geometry – Properties of Shapes: Shapes and Patters

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8	Lesson 1 – Recognising 3D Shapes	To recognise four basic 3D solid shapes: spheres, cubes, cuboids and pyramids.
– Shapes and Patterns	Lesson 2 – Recognising 2D Shapes	To recognise 2D shapes in the everyday environment.
	Lesson 3 – Grouping 2D Shapes	To be able to group shapes using different criteria.
	Lesson 4 – Making Patterns	To make patterns using common 2D shapes.
	Chapter consolidation	To practise various concepts covered in the chapter.
	2 days consolidation	To be used if lessons take longer than expected or a topic needs to be revisited.

Spring Term - Textbook 1b Measurement: Height and Length Maths — No Problem! **Lesson Name Lesson Objective Book Reference** Chapter 9 Lesson 1 – Comparing Height To compare height and length by using key terminology. - Height and Length and Length Lesson 2 – Measuring Length To be able to measure objects using other items, such as pencils or books. **Using Things** Lesson 3 – Measuring Height To be able to measure items using other things - parts of the body in particular. and Length Using Body Parts Lesson 4 – Measuring Height To introduce the concept of using rulers for measuring. and Length Using a Ruler Chapter consolidation To practise various concepts covered in the chapter. To be used if lessons take longer than expected or a topic needs to be revisited. 2 consolidation days Week 5 Revision and Mid-Year (A) Tests Weeks 6 and 7 Review and Remediation

Spring Term – Textbook 1b

Number and Place Value: Numbers to 40

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10	Lesson 1 – Counting to 40	To use the making 10 strategy to count numbers above 10; to represent numbers on a number line.
- Numbers to 40	Lesson 2 – Writing Numbers to 40	To use the ten-frame method of organisation and place-value cards to assist pupils in writing numbers to 40; to encourage multiple ways of counting, including counting by 2, 5 and 10.
	Lesson 3 – Counting in Tens and Ones	To understand that digits represent tens and ones; to represent numbers using Base 10 materials and numbers.
	Lesson 4 – Comparing Numbers	To use place value to compare two or three numbers and determine which number is bigger/smaller; to arrange three numbers in order of size.
	Lesson 5 – Finding How Much More	To compare numbers using number bonds, 100-squares and number lines to determine how much more/less.
	Lesson 6 – Making Number Patterns	To observe and use number patterns; to see number lines in conjunction with number squares in order to create visual proportionality.
	Chapter consolidation	To practise various concepts covered in the chapter.
	3 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.



Spring Term - Textbook 1b **Calculations: Addition and Subtraction Word Problems** Maths — No Problem! **Lesson Name Lesson Objective** Book Reference Chapter 11 To decide whether addition or subtraction is the most appropriate operation; to use and apply number bonds and visual Lesson 1 – Solving Word Problems - Addition and representations to solve word problems. Subtraction To use and apply concepts of how many more and how many fewer/less; to apply number bonds and the guess-and-check **Word Problems** Lesson 2 – Solving Word Problems method to solve word problems.

To practise various concepts covered in the chapter.

To be used if lessons take longer than expected or a topic needs to be revisited.

representations to suit the question.

similarities and differences.

To develop number sentences based on word problems; to improve the use of number bonds and one-to-one bar model

To use pictorial representations to help solve word problems; to choose the correct operation to solve a word problem.

To use visual representations and patterns to solve word problems; to develop precision in model drawing to recognise

To apply addition and subtraction to multi-step word problems; to use number bonds to make 10 when adding.

The lesson breakdown for Textbook 1B is provisional and may be subject to change.

Lesson 3 – Solving Word Problems

Lesson 4 – Solving Word Problems

Lesson 5 – Solving Word Problems

Lesson 6 - Solving Word Problems

Chapter consolidation

3 consolidation days



Spring Term – Textbook 1b			
Calculations: Multiplication			
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective	
Chapter 12 – Multiplication	Lesson 1 – Making Equal Groups	To identify equal groupings as the first step in multiplying; to reinforce the idea that the arrangement of objects does not impact on the number of objects.	
	Lesson 2 – Adding Equal Groups	To understand we can count groups of the same quantity more efficiently; to find multiple ways of counting groups of the same quantity.	
	Lesson 3 – Making Equal Rows	To organise objects into equal rows in order to begin counting equal numbers efficiently.	
	Lesson 4 – Making Doubles	To understand that doubling is creating an identical number to the one you started with; to understand that doubling is the same as saying two groups of the same amount.	
	1 consolidation day	To be used if lessons take longer than expected or a topic needs to be revisited.	



Summer Term – Textbook 1b			
Calculations: Multiplication			
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective	
Chapter 12	2 revision days	To revisit lessons 1–4.	
- Multiplication	Lesson 5 – Solving Word Problems	To solve word problems using equal groupings as the basis for multiplication.	
	Chapter consolidation	To practise various concepts that were covered in the chapter.	
	1 consolidation day	To be used if lessons take longer than expected or a topic needs to be revisited.	



Summer Term - Textbook 1b **Calculations: Division** Maths — No Problem! **Lesson Name Lesson Objective Book Reference** Chapter 13 To understand how to divide even numbers into equal groups using concrete materials; to determine how many groups will be Lesson 1 – Grouping Equally - Division created from sharing equally. To understand how to divide even numbers equally into groups; to determine how many objects will be included in each group Lesson 2 – Sharing Equally in order to share equally. Chapter consolidation To practise various concepts covered in the chapter. 2 consolidation days To be used if lessons take longer than expected or a topic needs to be revisited.



Summer Term – Textbook 1b

Fractions: Fractions

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Fractions	Lesson 1 – Making Halves	To split an object (shape) into two equal parts; to identify shapes that have been split into two equal parts.
	Lesson 2 – Making Quarters	To split an object (shape) into four equal parts; to identify shapes that have been split into four equal parts.
	Lesson 3 – Sharing and Grouping	To share and group objects into halves and quarters; to determine half of a number and a quarter of a number.
	Chapter consolidation	To practise various concepts covered in the chapter.
	1 consolidation day	To be used if lessons take longer than expected or a topic needs to be revisited.



Summer Term – Textbook 1b

Number and Place Value: Numbers to 100

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 15 – Numbers to 100	Lesson 1 – Counting to 100	To count in sequences of 10 followed by counting ones; to increase confidence with number lines and Base 10 materials in order to count numbers to 100.
	Lesson 2 – Finding Tens and Ones	To understand the value of the tens and ones digits in a number; to use multiple methods of representing and constructing a number.
	Lesson 3 – Comparing Numbers	To review and extend skills and strategies related to number comparison; to place numbers in order from smallest to greatest and vice versa.
	Lesson 4 – Making Number Patterns	To see patterns of numbers when increasing or decreasing by 1, 2 or 5; to use a number line, a 100-chart and Base 10 materials to represent numbers.
	Chapter consolidation	To practise various concepts covered in the chapter.
	2 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.



Summer Term - Textbook 1b **Measurement: Time** Maths — No Problem! **Lesson Name Lesson Objective Book Reference** Chapter 16 To develop familiarity with the analogue clock, including the minute and hour hands; to tell time to the hour on Lesson 1 – Telling Time to the Hour - Time an analogue clock. Lesson 2 – Telling Time to the To improve familiarity with the analogue clock; to tell time to the half hour using the term 'half past.' Half Hour Lesson 3 – Using Next, Before To sequence events in order of time; to use the terms 'next', 'before' and 'after' to describe the order of events. and After Lesson 4 – Estimating Duration To estimate an amount of time using seconds, minutes and hours. of Time Lesson 5 – Comparing Time To use the terms 'quicker', 'slower', 'earlier' and 'later' when comparing time. Lesson 6 – Using a Calendar To learn the days of the week and the months of the year and to be able to put them in the correct order. Chapter consolidation To practise various concepts covered in the chapter. 1 consolidation day To be used if lessons take longer than expected or a topic needs to be revisited.



Summer Term - Textbook 1b **Measurement: Money** Maths — No Problem! **Lesson Name Lesson Objective** Book Reference Chapter 17 Lesson 1 – Recognising Coins To recognise coins and determine their value using size, colour, markings and shape. - Money To recognise notes and determine their value using colour and markings. Lesson 2 – Recognising Notes Chapter consolidation To practise various concepts covered in the chapter. 2 consolidation days To be used if lessons take longer than expected or a topic needs to be revisited.



Summer Term - Textbook 1b **Measurement: Volume and Capacity** Maths — No Problem! **Lesson Name Lesson Objective** Book Reference Chapter 18 Lesson 1 – Comparing Volume To compare volume and capacity using the terms 'more than' and 'less than', 'full' and 'empty'. - Volume and Capacity and Capacity Lesson 2 – Finding Volume To find the volume and capacity of a container using non-standard ones. and Capacity Lesson 3 – Describing Volume To describe volume using the terms 'half' and 'quarter'. Using Half and a Quarter To practise various concepts covered in the chapter. Chapter consolidation 1 consolidation day To be used if lessons take longer than expected or a topic needs to be revisited.



Summer Term - Textbook 1b **Measurement: Mass** Maths — No Problem! **Lesson Name Lesson Objective** Book Reference Chapter 19 Lesson 1 – Comparing Mass To compare the mass of objects using the terms 'heavy' and 'light', 'heavier than', 'lighter than' and 'as heavy as'. - Mass Lesson 2 – Finding Mass To find the mass of an object using non-standard ones; to use visualisation skills to estimate the number of ones. Chapter consolidation To practise various concepts covered in the chapter. 2 consolidation days To be used if lessons take longer than expected or a topic needs to be revisited.



Summer Term - Textbook 1b **Geometry – Position and Direction: Space** Maths — No Problem! Lesson Name **Lesson Objective** Book Reference Chapter 20 Lesson 1 – Describing Positions To describe the position of objects in relation to one another using varied vocabulary. - Space Lesson 2 – Describing Movements To describe movements of objects using varied language. To understand how to make turns using mathematical language and connect this knowledge to time. Lesson 3 – Making Turns To practise various concepts covered in the chapter. Chapter consolidation 1 consolidation day To be used if lessons take longer than expected or a topic needs to be revisited. Week 11 Revision and End-Of-Year (B) Tests Week 12 **Review and Remediation**



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