

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 LESSON BREAKDOWN	Calculations: Division LESSON BREAKDOWN
Week 3	Calculations: Addition and Subtraction LESSON BREAKDOWN	Measurement: Height and Length LESSON BREAKDOWN	Fractions: Fractions LESSON BREAKDOWN
Week 4		Revision and Mid-year (A) Tests	Number and Place Value: Numbers to 100 LESSON BREAKDOWN
Week 5			Measurement: Time LESSON BREAKDOWN
Week 6			
Week 7		Review and Remediation	Measurement: Volume and Capacity LESSON BREAKDOWN
Week 8	Geometry – Position and Direction: Positions LESSON BREAKDOWN	Number and Place Value: Numbers to 40 LESSON BREAKDOWN	Measurement: Mass LESSON BREAKDOWN
Week 9	Number and Place Value: Numbers to 20 LESSON BREAKDOWN		Calculations: Addition and Subtraction LESSON BREAKDOWN
Week 10		Calculations: Addition and Subtraction within 20 LESSON BREAKDOWN	Calculations: Multiplication LESSON BREAKDOWN
Week 11	Review and Remediation		
Week 12			

Primary Maths Series - Year 1 Lesson

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.
	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.

Primary Maths Series - Year 1 Lesson

Autumn Term – Textbook 1a

Calculations: Addition and Subtraction

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 construct 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 – Subtraction within 10	Lesson 1 – Subtract by Crossing Out	To understand that subtraction can be done by crossing out or taking away.
	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.

Primary Maths Series - Year 1 Lesson

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.

Primary Maths Series - Year 1 Lesson

Autumn Term – Textbook 1a

Number and Place Value: Numbers to 20

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6 – Numbers to 20	Lesson 1 – Counting to 20	To count numbers up to 20. The key strategy is to begin by making 10.
	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.

Primary Maths Series - Year 1 Lesson

Autumn Term – Textbook 1a

Calculations: Addition and Subtraction within 20

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7 – Addition and Subtraction within 20	Lesson 1 – Add by Counting On	To learn to add by counting on from the largest number.
	Lesson 2 – Add by Making 10	To add to numbers by first making 10 and then adding on the remainder.
	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.

Primary Maths Series - Year 1 Lesson

Spring Term – Textbook 1b

Calculations: Addition and Subtraction within 20

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7 – Addition and Subtraction within 20 Lessons 6–7	2 revision days	To revisit lessons 1–5.
	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.
	Lesson 7 – Addition and Subtraction Facts	To go through number facts derived from addition and subtraction sentences.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 1 Lesson

Spring Term – Textbook 1b

Geometry – Properties of Shapes: Shapes and Patters

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8 – Shapes and Patterns	Lesson 1 – Recognising 3D Shapes	To recognise four basic 3D solid shapes: spheres, cubes, cuboids and pyramids.
	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.

Primary Maths Series - Year 1 Lesson

Spring Term – Textbook 1b

Measurement: Height and Length

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – Height and Length	Lesson 1 – Comparing Height and Length	To compare height and length by using key terminology.
	Lesson 2 – Measuring Length Using Things	To be able to measure objects using other items, such as pencils or books.
	Lesson 3 – Measuring Height and Length Using Body Parts	To be able to measure items using other things - parts of the body in particular.
	Lesson 4 – Measuring Height and Length Using a Ruler	To introduce the concept of using rulers for measuring.
	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.
Week 5	Revision and Mid-Year (A) Tests	
Weeks 6 and 7	Review and Remediation	

Primary Maths Series - Year 1 Lesson

Spring Term – Textbook 1b

Number and Place Value: Numbers to 40

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10 – Numbers to 40	Lesson 1 – Counting to 40	To use the making 10 strategy to count numbers above 10; to represent numbers on a number line.
	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.

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

Primary Maths Series - Year 1 Lesson

Spring Term – Textbook 1b

Calculations: Addition and Subtraction Word Problems

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – Addition and Subtraction Word Problems	Lesson 1 – Solving Word Problems	To decide whether addition or subtraction is the most appropriate operation; to use and apply number bonds and visual representations to solve word problems.
	Lesson 2 – Solving Word Problems	To use and apply concepts of how many more and how many fewer/less; to apply number bonds and the guess-and-check method to solve word problems.
	Lesson 3 – Solving Word Problems	To develop number sentences based on word problems; to improve the use of number bonds and one-to-one bar model representations to suit the question.
	Lesson 4 – Solving Word Problems	To use pictorial representations to help solve word problems; to choose the correct operation to solve a word problem.
	Lesson 5 – Solving Word Problems	To use visual representations and patterns to solve word problems; to develop precision in model drawing to recognise similarities and differences.
	Lesson 6 – Solving Word Problems	To apply addition and subtraction to multi-step word problems; to use number bonds to make 10 when adding.
	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.

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

Primary Maths Series - Year 1 Lesson

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.

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

Primary Maths Series - Year 1 Lesson

Summer Term – Textbook 1b

Calculations: Multiplication

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Multiplication	2 revision days	To revisit lessons 1–4.
	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.

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

Primary Maths Series - Year 1 Lesson

Summer Term – Textbook 1b

Calculations: Division

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 – Division	Lesson 1 – Grouping Equally	To understand how to divide even numbers into equal groups using concrete materials; to determine how many groups will be created from sharing equally.
	Lesson 2 – Sharing Equally	To understand how to divide even numbers equally into groups; to determine how many objects will be included in each group 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.

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

Primary Maths Series - Year 1 Lesson

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.

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

Primary Maths Series - Year 1 Lesson

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.

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

Primary Maths Series - Year 1 Lesson

Summer Term – Textbook 1b

Measurement: Time

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 16 – Time	Lesson 1 – Telling Time to the Hour	To develop familiarity with the analogue clock, including the minute and hour hands; to tell time to the hour on an analogue clock.
	Lesson 2 – Telling Time to the Half Hour	To improve familiarity with the analogue clock; to tell time to the half hour using the term 'half past.'
	Lesson 3 – Using Next, Before and After	To sequence events in order of time; to use the terms 'next', 'before' and 'after' to describe the order of events.
	Lesson 4 – Estimating Duration of Time	To estimate an amount of time using seconds, minutes and hours.
	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.

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

Primary Maths Series - Year 1 Lesson

Summer Term – Textbook 1b

Measurement: Money

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 17 – Money	Lesson 1 – Recognising Coins	To recognise coins and determine their value using size, colour, markings and shape.
	Lesson 2 – Recognising Notes	To recognise notes and determine their value using colour and markings.
	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.

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

Primary Maths Series - Year 1 Lesson

Summer Term – Textbook 1b

Measurement: Volume and Capacity

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 18 – Volume and Capacity	Lesson 1 – Comparing Volume and Capacity	To compare volume and capacity using the terms 'more than' and 'less than', 'full' and 'empty'.
	Lesson 2 – Finding Volume and Capacity	To find the volume and capacity of a container using non-standard ones.
	Lesson 3 – Describing Volume Using Half and a Quarter	To describe volume using the terms 'half' and 'quarter'.
	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.

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

Primary Maths Series - Year 1 Lesson

Summer Term – Textbook 1b

Measurement: Mass

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 19 – Mass	Lesson 1 – Comparing Mass	To compare the mass of objects using the terms 'heavy' and 'light', 'heavier than', 'lighter than' and 'as heavy as'.
	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.

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

Primary Maths Series - Year 1 Lesson

Summer Term – Textbook 1b

Geometry – Position and Direction: Space

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 20 – Space	Lesson 1 – Describing Positions	To describe the position of objects in relation to one another using varied vocabulary.
	Lesson 2 – Describing Movements	To describe movements of objects using varied language.
	Lesson 3 – Making Turns	To understand how to make turns using mathematical language and connect this knowledge to time.
	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.
Week 11	Revision and End-Of-Year (B) Tests	
Week 12	Review and Remediation	

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

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- a) To support existing users, with a current annual subscription to our Teacher Guide, with their lesson and curriculum planning, or
- b) To allow prospective users to assessment the suitability of the **Maths — No Problem!** Programme, or
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Primary Maths Series, New Edition

Scheme of Work - Year 2

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 2 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 2 at a Glance

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 100 <small>LESSON BREAKDOWN</small>	Measurement: Mass and Temperature <small>LESSON BREAKDOWN</small>	Fractions: Fractions <small>LESSON BREAKDOWN</small>
Week 2			
Week 3	Calculations: Addition and Subtraction <small>LESSON BREAKDOWN</small>	Statistics: Pictograms <small>LESSON BREAKDOWN</small>	
Week 4		Mid-year (A) Tests and Remediation	SATs
Week 5		Calculations: More Word Problems <small>LESSON BREAKDOWN</small>	Measurement: Time and Volume <small>LESSON BREAKDOWN</small>
Week 6		Calculations: Multiplication of 2, 5 and 10 <small>LESSON BREAKDOWN</small>	
Week 7			
Week 8	Calculations: Multiplication and Division of 2, 5 and 10 <small>LESSON BREAKDOWN</small>	Geometry – Properties of Shapes: 2D Shapes <small>LESSON BREAKDOWN</small>	
Week 9			
Week 10	Measurement: Length <small>LESSON BREAKDOWN</small>	Geometry – Properties of Shapes: 3D Shapes <small>LESSON BREAKDOWN</small>	Review and Revisit Topics
Week 11			
Week 12	Measurement: Mass <small>LESSON BREAKDOWN</small>	Fractions: Fractions <small>LESSON BREAKDOWN</small>	

Primary Maths Series - Year 2 Lesson Breakdown

Autumn Term – Textbook 2a

Number and Place Value: Numbers to 100

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 1 – Numbers to 100	Lesson 1 – Counting to 100	To count numbers up to 100 using concrete objects: counting up by ones and tens.
	Lesson 2 – Place Value	To understand each digit in a number has its own value.
	Lesson 3 – Comparing Numbers	To be able to compare numbers using place-value knowledge gained from previous lessons.
	Lesson 4 – Number Bonds	To use the number bond strategy to deepen understanding of place value.
	Lesson 5 – Number Patterns	To count in ones and tens; to introduce boundary crossing using tens and ones.
	Lesson 6 – Number Patterns	To recognise and describe patterns with more complex numbers, in particular 3 and 5.
	Chapter consolidation	To use place-value knowledge to think about the effects of each digit in a number.
	2 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.

Primary Maths Series - Year 2 Lesson Breakdown

Autumn Term – Textbook 2a

Calculations: Addition and Subtraction

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 – Addition and Subtraction	Lesson 1 – Simple Adding	To be able to add a 1-digit number to a 2-digit number without regrouping the ones.
	Lesson 2 – Simple Adding	To add tens by recognising its relationship to adding ones.
	Lesson 3 – Simple Adding	To add 2-digit numbers where one is a multiple of 10.
	Lesson 4 – Simple Adding	To add with tens and ones where the ones are both more than zero.
	Lesson 5 – Adding with Renaming	To add 1-digit numbers to a 2-digit number resulting in renaming of ones.
	Lesson 6 – Adding with Renaming	To add two 2-digit numbers where renaming is expected.
	Lesson 7 – Simple Subtracting	To subtract ones from a 2-digit number.
	Lesson 8 – Simple Subtracting	To subtract 2-digit multiples of 10 from 2-digit multiples of 10.
	Lesson 9 – Simple Subtracting	To subtract tens from a 2-digit number with the ones being more than zero.
	Lesson 10 – Simple Subtracting	To subtract a 2-digit number by another 2-digit number.
	Lesson 11 - Subtraction from Multiples of 10	To subtract within 100 by applying related 1-digit addition and subtraction facts.
	Lesson 12 – Subtracting with Renaming	To subtract a 2-digit number by a 1-digit number with renaming.
	Lesson 13 – Subtracting with Renaming	To subtract a 2-digit number by another 2-digit number where renaming has to occur.
	Lesson 14 – Addition of Three Numbers	To add three 1-digit numbers.
Chapter consolidation	To practise various concepts covered in the chapter.	

Primary Maths Series - Year 2 Lesson Breakdown

Autumn Term – Textbook 2a

Calculations: Multiplication of 2, 5 and 10

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 3 – Multiplication of 2, 5 and 10	Lesson 1 – Multiplication as Equal Groups	To realise that multiplication is the same as repeated addition with equal groups.
	Lesson 2 – 2 Times Table	To focus on understanding and learning the 2 times table.
	Lesson 3 – 2 Times Table	To use concrete materials and pictorial representations to multiply by 2.
	Lesson 4 – 5 Times Table	To cover the basics of the 5 times table and to highlight multiplication visually as equal groups.
	Lesson 5 – 5 Times Table	To recall and use the 5 times table.
	Lesson 6 – 10 Times Table	To introduce the 10 times table by focusing on the numbers found in the 10 times table.
	Lesson 7 – 10 Times Table	To look at the 10 times table in more detail by looking at patterns and relationships.
	Lesson 8 – Multiplying by 2, 5 and 10	To investigate links between the 2, 5 and 10 times tables. To understand commutative law.
	Lesson 9 – Multiplying by 2, 5 and 10	To use knowledge of the 2, 5 and 10 times tables to further investigate commutative law.
	Lesson 10 – Solving Word Problems	To use the 2, 5 and 10 times tables to solve word problems.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 2 Lesson Breakdown

Autumn Term – Textbook 2a

Calculations: Multiplication and Division of 2, 5 and 10

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 4 – Multiplication and Division of 2, 5 and 10	Lesson 1 – Grouping	To understand that grouping is a way of dividing.
	Lesson 2 – Sharing	To be able to divide by sharing an amount.
	Lesson 3 – Dividing by 2	To be able to divide by 2. The two strategies used here are splitting into groups of x and splitting into equal groups of many.
	Lesson 4 – Dividing by 5	To be able to divide by 5 and identify links with multiplying by 5.
	Lesson 5 – Dividing by 10	To be able to divide by 10 and identify links with multiplying by 10.
	Lesson 6 – Multiplication and Division	To use multiplication and division skills to identify family facts in a number sentence.
	Lesson 7 – Solving Word Problems	To understand and solve word problems which require the use of the multiplication and division skills covered in this chapter.
	Lesson 8 – Odd and Even Numbers	To be able to link whether odd or even numbers can be divisible by 2, 5 or 10.
	Chapter consolidation	To use multiplication and division knowledge in problem solving and to create equations from questions.
	1 consolidation day	To be used if lessons take longer than expected or a topic needs to be revisited.

Primary Maths Series - Year 2 Lesson Breakdown

Autumn Term – Textbook 2a

Measurement: Length

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 5 – Length	Lesson 1 – Measuring Length in Metres	To measure length in metres.
	Lesson 2 – Measuring Length in Centimetres	To measure length in centimetres.
	Lesson 3 – Comparing Length in Metres	To be able to compare length for objects using 'greater than' and 'less than' symbols.
	Lesson 4 – Comparing Length in Centimetres	To be able to compare different lengths using centimetres as the unit of measure.
	Lesson 5 – Comparing the Lengths of Lines	To be able to compare and measure various line lengths: both straight and curvy.
	Lesson 6 – Solving Word Problems	To be able to solve problems involving measurement in the context of word problems.
	Lesson 7 – Solving Word Problems	To be able to solve addition and multiplication word problems involving measurement.
	Lesson 8 – Solving Word Problems	To be able to solve addition and division word problems involving measurement.
	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.

Primary Maths Series - Year 2 Lesson Breakdown

Autumn Term – Textbook 2a

Measurement: Mass

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6 – Mass	Lesson 1 – Measuring Mass in Kilograms	To understand that mass is measured in kilograms and by using weighing scales.
	Lesson 2 – Measuring Mass in Grams	To be able to measure mass in grams and to understand that it is a smaller unit of measure than a kilogram.
	Lesson 3 – Measuring Mass in Grams	To be able to measure mass accurately in grams using weighing scales.
	Lesson 4 – Comparing Mass of Two Objects	To be able to compare the mass of two different objects accurately.
	Lesson 5 – Comparing the Mass of Three Objects	To be able to compare the mass of three objects and use the appropriate vocabulary.
	Lesson 6 – Solving Word Problems	To solve word problems in the context of mass.
	Lesson 7 – Solving More Word Problems	To solve word problems involving mass.
	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.

Primary Maths Series - Year 2 Lesson Breakdown

Spring Term – Textbook 2a

Measurement: Temperature

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7 – Temperature	Lesson 1 – Reading Temperature	To be able to accurately read temperature in Celsius.
	Lesson 2 – Estimating Temperature	To be able to estimate temperature and to read thermometers to confirm the estimate.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 2 Lesson Breakdown

Spring Term – Textbook 2a

Statistics: Pictograms

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8 – Pictograms	Lesson 1 – Reading Pictograms	To be able to read a picture graph with confidence.
	Lesson 2 – Reading Pictograms	To be able to read and interpret a picture graph with confidence.
	Lesson 3 – Reading Pictograms	To be able to read and interpret a picture graph where the value of the picture can represent more than 1.
	Lesson 4 – Reading Pictograms	To be able to read and interpret a picture graph where the value of the picture can represent more than 1.
	Lesson 5 – Reading Pictograms	To be able to read, interpret and create a picture graph where the value of the picture can represent more than 1.
	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.
Week 3	Mid-Year (A) Tests And Remediation	

Primary Maths Series - Year 2 Lesson Breakdown

Spring Term – Textbook 2b

Calculations: More Word Problems

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – More Word Problems	Lesson 1 – Solving Word Problems	To decide when it is appropriate to add and/or subtract when solving word problems; to improve the use of bar modelling and decision making based on visual representations.
	Lesson 2 – Solving Word Problems	To use the bar model method to solve word problems looking at the difference between two amounts.
	Lesson 3 – Solving Word Problems	To solve multi-step word problems using bar modelling; to use more than one bar model in a problem to work out the answer.
	Lesson 4 – Solving Word Problems	To use bar modelling to solve multi-step word problems involving unknown quantities.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

Primary Maths Series - Year 2 Lesson Breakdown

Spring Term – Textbook 2b

Measurement: Money

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10 – Money	Lesson 1 – Writing Amounts of Money	To identify standard UK coins and notes and write their names.
	Lesson 2 – Counting Money	To count notes in sequences of 5 and 10; to recognise the value of notes by appearance.
	Lesson 3 – Counting Money	To count coins in sequences of their value; to recognise the value of coins by appearance.
	Lesson 4 – Counting Money	To represent amounts of money using coins and notes; to count coins and notes using their denominations.
	Lesson 5 – Showing Equal Amounts of Money	To create equal amounts of money using different coins.
	Lesson 6 – Exchanging Money	To exchange denominations of money for different coins.
	Lesson 7 – Comparing Amounts of Money	To compare different amounts of money using coins.
	Lesson 8 – Calculating Total Amount	To add money together to determine the total amount.
	Lesson 9 – Calculating Change	To calculate change from £100 or less; to use the bar model approach to represent amounts of money.
	Lesson 10 – Solving Word Problems	To solve more complex word problems using bar modelling as a primary method.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

Primary Maths Series - Year 2 Lesson Breakdown

Spring Term – Textbook 2b

Geometry – Properties of Shapes: 2D Shapes

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – 2D Shapes	Lesson 1 – Identifying Sides	To identify the number of sides on basic 2D shapes.
	Lesson 2 – Identifying Vertices	To identify and count the vertices in regular polygons.
	Lesson 3 – Identifying Lines of Symmetry	To identify lines of symmetry in basic 2D shapes.
	Lesson 4 – Making Figures	To construct shapes using pattern blocks that have lines of symmetry.
	Lesson 5 – Sorting Shapes	To sort shapes based on number of sides, vertices and other factors.
	Lesson 6 – Drawing Shapes	To draw shapes using square grid and dot grid paper; to copy shapes from sight using grid paper.
	Lesson 7 – Making Patterns	To recognise patterns of familiar shapes and colours of up to three objects.
	Lesson 8 – Describing Patterns	To describe patterns using ordinal numbers and shape names.
	Lesson 9 – Moving Shapes	To move shapes on a square grid from one position to another using common language.
	Lesson 10 – Turning Shapes	To turn objects using quarter, half and three-quarter turns both clockwise and anticlockwise on a square grid.
Chapter consolidation	To practise various concepts covered in the chapter.	

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

Primary Maths Series - Year 2 Lesson Breakdown

Spring Term – Textbook 2b

Geometry – Properties of Shapes: 3D shapes

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – 3D Shapes	Lesson 1 – Recognising Three-Dimensional Shapes	To recognise 3D shapes by identifying their properties.
	Lesson 2 – Describing Three-Dimensional Shapes	To describe 3D shapes and classify them using faces, vertices and edges.
	Lesson 3 – Describing Three-Dimensional Shapes	To describe 3D shapes based on the number of faces and the 2D shapes of these faces; to construct nets of shapes into 3D shapes.
	Lesson 4 – Grouping Three-Dimensional Shapes	To group 3D shapes by similar properties.
	Lesson 5 – Forming Three-Dimensional Structures	To form 3D structures using multiple 3D objects.
	Lesson 6 – Making Patterns	To make and recognise patterns using 3D shapes.
	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.

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

Primary Maths Series - Year 2 Lesson Breakdown

Spring Term – Textbook 2b

Fractions: Fractions

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 – Fractions Spring Term	Lesson 1 – Making Equal Parts	To make equal parts from a whole using simple and complex methods.
	Lesson 2 – Showing Half and Quarter	To show and recognise halves and quarters.
	Lesson 3 – Showing Quarters	To show and identify more than one quarter using materials and pictures.
	Lesson 4 – Showing Thirds	To show and identify thirds in shapes; to use the vocabulary 'numerator' and 'denominator' when referring to fractions.
	Lesson 5 – Naming Fractions	To identify and name fractions by looking at the number of pieces and how many are shaded in.

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

Primary Maths Series - Year 2 Lesson Breakdown

Summer Term – Textbook 2b

Fractions: Fractions

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 – Fractions Summer Term	3 Revision days	To revisit lessons 1-5
	Lesson 6 – Making Equal Fractions	To recognise equivalent fractions in quarters, thirds and halves.
	Lesson 7 – Comparing and Ordering Fractions	To compare and order similar fractions by looking at the size of the pieces shaded.
	Lesson 8 – Comparing and Ordering Fractions	To compare and order fractions with different denominators.
	Lesson 9 – Counting Wholes and Parts	To count the number of wholes and parts to form mixed numbers.
	Lesson 10 – Counting in Halves	To count in halves and place halves onto a number line using pictures.
	Lesson 11 – Counting in Quarters	To count in quarters and place quarters onto a number line using pictures.
	Lesson 12 – Counting in Thirds	To count in thirds and place thirds onto a number line using pictures.
	Lesson 13 – Finding Part of a Set	To find fractions (half) of whole numbers.
	Lesson 14 – Finding Part of a Set	To find a fraction (third) of a whole number.
	Lesson 15 – Finding Part of a Set	To find a fraction (quarter) of a number.
	Lesson 16 – Finding Part of a Quantity	To find a fraction (half, third, quarter) of a quantity (length).
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

Primary Maths Series - Year 2 Lesson Breakdown

Summer Term – Textbook 2b

Measurement: Time

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Time	Lesson 1 – Telling and Writing Time to 5 Minutes	To tell and write time to 5-minute intervals.
	Lesson 2 – Telling and Writing Time	To tell time to 5-minute intervals and to the hour.
	Lesson 3 – Sequencing Events	To sequence events of the day by looking at analogue clocks and pictures.
	Lesson 4 – Drawing Clock Hands	To draw hands on an analogue clock to show the correct time.
	Lesson 5 – Finding Durations of Time	To find the duration of time using an analogue clock in 30- and 60-minute intervals.
	Lesson 6 – Finding Durations of Time	To find the duration of time to 5-minute intervals.
	Lesson 7 – Finding Ending Times	To find the ending of a duration of time from different 5-minute starting points.
	Lesson 8 – Finding Ending Times	To find the ending time in intervals of 5 minutes from delayed starts.
	Lesson 9 – Finding Starting Times	To find the starting time from 30-minute and 1-hour interval durations.
	Lesson 10 – Finding Starting Times	To find the start of multiple durations of time using a common end time.
	Lesson 11 – Comparing Time	To compare durations of time from the least amount to the most amount of time and vice versa.
	Chapter consolidation	To practise various concepts that were covered in the chapter

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

Primary Maths Series - Year 2 Lesson Breakdown

Summer Term – Textbook 2b		
Measurement: Volume		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Week 4	SATs	
Chapter 15 – Volume	Lesson 1 – Comparing Volume	To compare volume in different-sized containers using the terms 'greater than,' 'less than,' 'greatest' and 'least.'
	Lesson 2 – Comparing Volume	To compare the volume of different containers using non-standard units.
	Lesson 3 – Measuring Volume in Litres	To measure volume using litres and determine whether an amount is 'more than,' 'less than' or 'equal to' a litre.
	Lesson 4 – Measuring Volume in Millilitres	To measure volume using millilitres and litres; to determine how many ml there are in 1 l.
	Lesson 5 – Solving Word Problems	To solve word problems involving bar models with litres as the standard unit.
	Lesson 6 – Solving Word Problems	To solve word problems using ml and l, including problems involving difference.
	Lesson 7 – Solving Word Problems	To solve word problems involving volume and multiplication.
	Chapter consolidation	To practise various concepts covered in the chapter.
Week 9	Revision and End-Of-Year (B) Tests	
Weeks 10 to 12	Review and Revisit Topics	

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

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Primary Maths Series, New Edition

Scheme of Work - Year 3

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 3 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 3 at a Glance

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 1000 LESSON BREAKDOWN	Measurement: Length LESSON BREAKDOWN	Statistics: Pictographs and Bar Graphs LESSON BREAKDOWN
Week 2			Fractions, Decimals and Percentages: Fractions LESSON BREAKDOWN
Week 3	Measurement: Mass LESSON BREAKDOWN		
Week 4	Calculations: Addition and Subtraction LESSON BREAKDOWN	Measurement: Volume LESSON BREAKDOWN	
Week 5			
Week 6	Mid-year (A) Tests and Remediation		
Week 7	Calculations: Multiplication and Division LESSON BREAKDOWN	Measurement: Money LESSON BREAKDOWN	
Week 8			
Week 9		Geometry – Properties of Shapes: Lines and Shapes LESSON BREAKDOWN	
Week 10	Calculations: Further Multiplication and Division LESSON BREAKDOWN	Measurement: Time LESSON BREAKDOWN	Measurement: Perimeter of Figures LESSON BREAKDOWN
Week 11			
Week 12			End-of-year (B) Tests and Remediation

Primary Maths Series - Year 3 Lesson Breakdown

Autumn Term – Textbook 3a		
Number and Place Value: Numbers to 1000		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 1 – Numbers to 1000	Lesson 1 – Counting in Hundreds	To learn to count in hundreds and understand the place value. Pupils will also understand how many hundreds are needed to make 1000.
	Lesson 2 – Counting in Hundreds, Tens and Ones	To compose and decompose numbers consisting of hundreds, tens and ones.
	Lesson 3 – Place Value	To understand the value of each digit in a 3-digit number.
	Lesson 4 – Comparing and Ordering Numbers	To be able to compare and order numbers.
	Lesson 5 – Counting in Fifties	To be able to count in fifties.
	Lesson 6 – Number Patterns	To recognise, describe and continue a number pattern.
	Lesson 7 – Number Patterns	To be able to recognise, describe and complete more complicated number patterns.
	Lesson 8 – Counting in Fours and Eights	To be able to count in fours and eights.
	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.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Autumn Term – Textbook 3a

Calculations: Addition and Subtraction

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 – Addition and Subtraction	Lesson 1 – Addition and Subtraction Facts	To understand the commutative law of addition and the corresponding addition and subtraction facts.
	Lesson 2 – Simple Adding	To add a 3-digit number to a 1-digit number with no regrouping or renaming.
	Lesson 3 – Simple Adding	To add a 3-digit number to a multiple of 10 (2-digit number) without regrouping or renaming.
	Lesson 4 – Simple Adding	To add multiples of 100 to a 3-digit number. without regrouping or renaming.
	Lesson 5 – Simple Adding	To add two 3-digit numbers without regrouping or renaming; introduction of the column method of addition.
	Lesson 6 – Adding with Renaming	To add a 3-digit number to a 1-digit number, with renaming.
	Lesson 7 – Adding with Renaming	To add with renaming in tens.
	Lesson 8 – Adding with Renaming	To add two 3-digit numbers with renaming the ones.
	Lesson 9 – Adding with Renaming	To add two 3-digit numbers with renaming the tens.
	Lesson 10 – Adding with Renaming	To add with renaming in ones and tens.
	Lesson 11 – Simple Subtracting	To do simple subtraction by taking away a 1-digit number from a 2-digit number without renaming.
	Lesson 12 – Simple Subtracting	To do simple subtraction by taking away a 1-digit number from a 3-digit number without renaming.
	Lesson 13 – Simple Subtracting	To subtract multiples of 10, up to 90, from a 3-digit number.
	Lesson 14 – Simple Subtracting	To subtract hundreds from a 3-digit number and to subtract multiples of 1 and 10 from a 3-digit number.
	Lesson 15 – Simple Subtracting	To understand simple subtraction of a 3-digit number by another 3-digit number using the column method.
	Lesson 16 – Subtracting with Renaming	To subtract with renaming in tens and ones.
	Lesson 17 – Subtracting with Renaming	To subtract with renaming hundreds.
	Lesson 18 – Subtracting with Renaming	To subtract with regrouping tens and hundreds.
	Lesson 19 – Subtracting with Renaming	To subtract a 3-digit number with zeros.
	Lesson 20 – Using Models	To solve addition and subtraction problems using the bar model.
	Lesson 21 – Using Models	To use the bar model to solve problems.
	Lesson 22 – Using Models	To solve complicated problems involving addition and subtraction using a comparative bar model heuristic.
	Lesson 23 – Using Models	To solve more complicated problems involving addition and subtraction using a comparative bar model heuristic.
	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.	

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Autumn Term – Textbook 3a		
Calculations: Multiplication and Division		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 3 – Multiplication and Division	Lesson 1 – Multiplying by 3	To multiply by 3.
	Lesson 2 – Multiplying by 3	To multiply by 3 using relational properties.
	Lesson 3 – Multiplying by 4	To multiply by 4.
	Lesson 4 – Multiplying by 4	To multiply by 4.
	Lesson 5 – Multiplying by 4 and 8	To multiply by 4 and 8.
	Lesson 6 – Multiplying by 8	To multiply by 8; to use commutative law to multiply.
	Lesson 7 – Multiplying by 8	To multiply by 8.
	Lesson 8 – Dividing by 3	To divide by 3.
	Lesson 9 – Dividing by 4	To divide by 4.
	Lesson 10 – Multiplying and Dividing	To find relationships between multiplication and division.
	Lesson 11 – Dividing by 4 and 8	To divide by 4 and 8.
	Lesson 12 – Solving Word Problems	To solve word problems with multiplication.
	Lesson 13 – Solving Word Problems	To solve word problems that involve division.
	Lesson 14 – Solving Word Problems	To solve more word problems involving multiplication and division using the bar model heuristic.
	Lesson 15 – Solving Word Problems	To solve problems using a variety of strategies.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Autumn Term – Textbook 3a

Calculations: Further Multiplication and Division

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 4 – Further Multiplication and Division	Lesson 1 – Multiplying 2-Digit Numbers	To multiply multiples of 10 by a 1-digit number.
	Lesson 2 – Multiplying 2-Digit Numbers	To multiply any 2-digit number by a 1-digit number.
	Lesson 3 – Multiplying 2-Digit Numbers	To multiply more 2-digit numbers.
	Lesson 4 – Multiplying with Regrouping	To multiply with regrouping.
	Lesson 5 – Multiplying with Regrouping	To multiply with regrouping.
	Lesson 6 – Dividing 2-Digit Numbers	To understand simple division of a 2-digit number by a 1-digit number.
	Lesson 7 – Dividing with Regrouping	To divide where there is a need to regroup.
	Lesson 8 – Dividing with Regrouping	To use long division to divide.
	Lesson 9 – Solving Word Problems	To solve word problems that involve multiplication.
	Lesson 10 – Solving Word Problems	To solve word problems involving division.
	Lesson 11 – Solving Word Problems	To solve more challenging word problems.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Spring Term – Textbook 3a

Measurement: Length

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 5 – Length	Lesson 1 – Writing Length in Metres and Centimetres	To use metres and centimetres to measure objects.
	Lesson 2 – Writing Length in Centimetres	To write length in centimetres only by converting metres to centimetres.
	Lesson 3 – Writing Length in Metres	To convert kilometres to metres.
	Lesson 4 – Writing Length in Kilometres and Metres	To convert length from metres to kilometres and metres.
	Lesson 5 – Comparing Length	To compare two lengths.
	Lesson 6 – Solving Word Problems	To solve measurement-related word problems.
	Lesson 7 – Solving Word Problems	To solve other word problems.
	Lesson 8 – Solving Word Problems	To solve word problems further, involving multiplication.
	Lesson 9 – Solving Word Problems	To solve word problems associated with length using division.
	Lesson 10 – Solving Word Problems	To solve more challenging word problems.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Spring Term – Textbook 3a

Measurement: Mass

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6 – Mass	Lesson 1 – Reading Weighing Scales	To measure mass using weighing scales and compare the mass of objects using grams and kilograms.
	Lesson 2 – Reading Weighing Scales	To use weighing scales to measure mass when the mass is between multiples of 100 g.
	Lesson 3 – Reading Weighing Scales	To read values on a scale which are 1 kg or more.
	Lesson 4 – Reading Weighing Scales	To weigh heavier items where the markers in the scales represent 200 g each.
	Lesson 5 – Solving Word Problems	To solve word problems relating to mass with addition and subtraction.
	Lesson 6 – Solving Word Problems	To solve word problems relating to mass using multiplication.
	Lesson 7 – Solving Word Problems	To solve word problems relating to mass using division.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Spring Term – Textbook 3a		
Measurement: Volume		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7 – Volume	Lesson 1 – Measuring Volume in Millilitres	To measure volume in millilitres.
	Lesson 2 – Measuring Capacity in Millilitres	To measure capacity in millilitres.
	Lesson 3 – Measuring Volume in Millilitres and Litres	To measure volume using millilitres and litres.
	Lesson 4 – Measuring Capacity in Millilitres and Litres	To measure volume in millilitres and litres from a 'homemade' bottle with markings.
	Lesson 5 – Writing Volume in Litres and Millilitres	To measure volume using millilitres and litres in comparison to 1 l.
	Lesson 6 – Writing Capacity in Litres and Millilitres	To measure larger capacity in litres and millilitres.
	Lesson 7 – Solving Word Problems	To solve basic word problems related to volume.
	Lesson 8 – Solving Word Problems	To solve more word problems.
	Lesson 9 – Solving Word Problems	To solve word problems through division.
	Lesson 10 – Solving Word Problems	To solve two-step word problems.
	Chapter consolidation	To practise various concepts covered in the chapter.
Week 6	Mid-Year (A) Tests and Remediation	

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Spring Term – Textbook 3b		
Measurement: Money		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8 – Money	Lesson 1 – Naming Amounts of Money	To consolidate previous learning about denominations of both notes and coins; to use simple addition to count amounts of money.
	Lesson 2 – Naming Amounts of Money	To name amounts of money including coins above 100p; to regroup and rename 100p as £1 as a key strategy.
	Lesson 3 – Showing Amounts of Money	To find multiple ways of showing an amount of money.
	Lesson 4 – Adding Money	To add money by adding together the pounds and pence separately.
	Lesson 5 – Adding Money	To add amounts of money together using different methods; to consolidate the addition of pounds and pence separately.
	Lesson 6 – Adding Money	To consolidate 'making a pound' as a strategy for adding amounts of money where the coins equal more than 99p.
	Lesson 7 – Adding Money	To learn the 'make a pound' strategy with number bond diagrams; to consolidate the strategies associated with the addition of money.
	Lesson 8 – Subtracting Money	To use multiple methods for subtracting amounts of money, including concrete materials and the column method.
	Lesson 9 – Subtracting Money	To use visual comparison to subtract amounts of money; to consolidate column subtraction where there is no regrouping of pence required.
	Lesson 10 – Subtracting Money	To use number bonds to subtract amounts of money; to develop number sense through decision making.
	Lesson 11 – Subtracting Money	To use number bonds as the primary strategy for subtracting amounts of money; to split pounds and pence simultaneously when subtracting amounts of money.
	Lesson 12 – Calculating Change	To learn the 'counting on' strategy for calculating change; to consolidate the number bonds strategy for calculating change.
	Lesson 13 – Solving Word Problems	To solve word problems involving money using bar modelling as the key strategy; to learn how to use comparative models where pupils are solving by seeing the smaller amount inside of the larger amount.
	Lesson 14 – Solving Word Problems	To use part-whole bar models to represent word problems; to apply addition and subtraction strategies to solve word problems.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Spring Term – Textbook 3b		
Measurement: Time		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – Time	Lesson 1 – Telling the Time	To use the terms 'a.m.' and 'p.m.' correctly to identify morning or afternoon/evening.
	Lesson 2 – Telling the Time	To learn to tell time to the minute; to understand the relationship between the minute hand and hour hand.
	Lesson 3 – Telling the Time	To consolidate and apply a variety of vocabulary used to express the time.
	Lesson 4 – Telling the Time	To compare analogue and digital time; to represent time using both analogue and digital methods.
	Lesson 5 – Telling the Time	To tell time before the hour using the hour and minute hands.
	Lesson 6 – Telling the Time	To learn to tell time using 24-hour notation; to use analogue time and 24-hour notation interchangeably.
	Lesson 7 – Telling the Time	To tell the time on an analogue clock using Roman numerals.
	Lesson 8 – Measuring and Comparing Time in Seconds	To measure time in seconds and milliseconds.
	Lesson 9 – Measuring Time in Seconds	To measure time in seconds using a stopwatch; to consolidate previous learning about seconds.
	Lesson 10 – Measuring Time in Seconds	To consolidate measuring time in seconds; to conduct a time experiment using seconds.
	Lesson 11 – Measuring Time in Hours	To measure time in hours using an analogue clock.
	Lesson 12 – Measuring Time in Hours	To consolidate the measurement of time in hours.
	Lesson 13 – Measuring Time in Hours	To measure time in hours using analogue clocks and timelines; to count backwards in time by the hour.
	Lesson 14 – Measuring Time in Minutes	To measure the passage of time in minutes using an analogue clock and a timeline.
	Lesson 15 – Measuring Time in Minutes	To measure time to the minute when it crosses into the next hour; to use number bonds to calculate the passage of time.
	Lesson 16 – Measuring Time in Minutes	To measure time in minutes, counting backwards to determine the starting point; to use number bonds and timelines to calculate the passage of time.
	Lesson 17 – Changing Minutes to Seconds	To determine how many seconds are in a minute; to use multiplication to calculate the number of seconds in a number of minutes.
	Lesson 18 – Changing Seconds to Minutes	To convert seconds into minutes using number bonds.
	Lesson 19 – Finding Number of Days	To calculate the number of days in a month; to learn which months have 31, 30 and 28/29 days.
	Lesson 20 – Finding Number of Days	To find the duration of days for different activities.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 3 Lesson Breakdown

Summer Term – Textbook 3b		
Statistics: Pictograms and Bar Graphs		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10 – Pictograms and Bar Graphs	Lesson 1 – Drawing Pictograms	To construct picture graphs from a set of data; to present data with pictures that represent more than one item.
	Lesson 2 – Drawing Bar Graphs	To construct bar graphs from a set of data; to use proportion to reflect precise difference in quantity.
	Lesson 3 – Reading Bar Graphs	To read and interpret information from a bar graph; to use and understand vocabulary related to bar graphs.
	Lesson 4 – Reading Bar Graphs	To read bar graphs where the scale is not a multiple of all quantities measured.
	Lesson 5 – Reading Bar Graphs	To read bar graphs where the scale is made up of larger increments.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Summer Term – Textbook 3b		
Fractions, Decimals and Percentages: Fractions		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – Fractions	Lesson 1 – Counting in Tenths	To count in tenths; to recognise tenths and be able to determine how many tenths are shaded.
	Lesson 2 – Making Number Pairs	To make number pairs to create 1; to combine fractions to make 1.
	Lesson 3 – Adding Fractions	To add fractions with the same denominator.
	Lesson 4 – Adding Fractions	To consolidate adding fractions with the same name; to learn how fractions can add to 1.
	Lesson 5 – Subtracting Fractions	To subtract fractions with the same name.
	Lesson 6 – Finding Equivalent Fractions	To find equivalent fractions through paper folding and shading.
	Lesson 7 – Finding Equivalent Fractions	To find equivalent fractions using paper folding and shading.
	Lesson 8 – Finding Equivalent Fractions	To find equivalent fractions; to place fractions on a number line.
	Lesson 9 – Finding Equivalent Fractions	To find fractions equivalent to $\frac{1}{2}$; to use pictorial representations and multiplication to show equivalence.
	Lesson 10 – Finding Equivalent Fractions	To find equivalent fractions using concrete objects and pictorial representations.
	Lesson 11 – Finding Equivalent Fractions	To find equivalent fractions using pictorial representations and multiplication.
	Lesson 12 – Finding the Simplest Fraction	To find the simplest fraction using visualisation and concrete materials.
	Lesson 13 – Finding the Simplest Fraction	To find the simplest fraction using pictorial representations and division.
	Lesson 14 – Finding Equivalent Fractions	To find equivalent fractions using multiplication and division; to determine whether or not a fraction is equivalent.
	Lesson 15 – Comparing Fractions	To compare the fractions $\frac{1}{2}$ and $\frac{1}{4}$ using pictorial representations and concrete materials.

The lesson breakdown is provisional and may be subject to change.

Continued overleaf 

Primary Maths Series - Year 3 Lesson Breakdown

Summer Term – Textbook 3b		
Fractions, Decimals and Percentages: Fractions (continued)		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – Fractions	Lesson 16 – Comparing Fractions	To compare fractions using pictorial representations; to understand the numerical nature of the numerator.
	Lesson 17 – Comparing Fractions	To compare fractions with different names (denominators) using pictorial representations and number lines.
	Lesson 18 – Adding Fractions	To add fractions using pictorial representations; to simplify fractions after adding them.
	Lesson 19 – Subtracting Fractions	To subtract fractions using pictorial representations; to simplify fractions after they have been subtracted.
	Lesson 20 – Subtracting Fractions	To subtract fractions from a whole amount; to use pictorial representations of whole numbers to help subtract fractions.
	Lesson 21 – Finding Part of a Set	To determine a fraction of a whole number using pictorial representations.
	Lesson 22 – Finding Part of a Set	To find a fraction of a whole number using pictorial representations, multiplication and concrete objects.
	Lesson 23 – Finding the Fraction of a Number	To consolidate finding the fraction of a whole number.
	Lesson 24 – Sharing One	To divide 1 between more than 1; to share 1 whole equally between more than 1.
	Lesson 25 – Sharing More Than 1	To share more than 1 using pictorial representations and division.
	Lesson 26 – Sharing More Than 1	To share more than 1; to recognise a whole and its parts using pictures and number lines.
	Lesson 27 – Sharing More Than 1	To show more than 1 whole after sharing a number of items equally; to use pictorial representations to share whole items equally.
	Lesson 28 – Solving Word Problems	To apply bar modelling to represent fractions in word problems; to solve word problems using pictorial representations and abstract methods.
	Lesson 29 – Solving Word Problems	To use bar models to solve word problems involving the fraction $\frac{1}{2}$.
	Lesson 30 – Solving Word Problems	To use bar models to solve word problems involving the fractions $\frac{1}{3}$ and $\frac{1}{5}$.
Chapter consolidation	To practise various concepts covered in the chapter.	

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Summer Term – Textbook 3b		
Geometry – Properties of Shapes: Angles		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Angles	Lesson 1 – Making Angles	To learn what makes an angle and identify angles in objects.
	Lesson 2 – Making Angles	To see angles on the inside and outside of objects; to find angles in letters.
	Lesson 3 – Finding Angles in Shapes	To find angles in shapes; to determine the relationship between the number of angles in a shape and the number of sides.
	Lesson 4 – Finding Right Angles	To find right angles in everyday objects; to understand what makes a right angle.
	Lesson 5 – Comparing Angles	To compare angles using the terms 'right' angle and 'acute' angle; to identify acute angles as smaller angles than right angles.
	Lesson 6 – Comparing Angles	To identify right angles and acute angles; to recognise and define an obtuse angle.
	Lesson 7 – Making Turns	To make turns using angles vocabulary; to align the language of angles and fractions to describe turns.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Summer Term – Textbook 3b		
Geometry – Properties of Shapes: Lines and Shapes		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 – Lines and Shapes	Lesson 1 – Identifying Perpendicular Lines	To identify, define and create perpendicular lines; to find perpendicular lines in everyday objects.
	Lesson 2 – Identifying Parallel Lines	To identify, define and create parallel lines; to find parallel lines in everyday objects.
	Lesson 3 – Finding Vertical and Horizontal Lines	To define and identify vertical and horizontal lines; to find vertical and horizontal lines in everyday life.
	Lesson 4 – Describing Two-Dimensional Shapes	To describe 2D shapes using familiar vocabulary about lines and angles.
	Lesson 5 – Drawing Two-Dimensional Shapes	To draw 2D shapes in proportion to their size; to identify how big a shape is.
	Lesson 6 – Making Three-Dimensional Shapes	To create 3D shapes out of nets; to use vocabulary related to 3D shapes and their properties.
	Lesson 7 – Making Three-Dimensional Shapes	To construct 3D shapes out of clay and discuss their properties.
	Lesson 8 – Describing Three-Dimensional Shapes	To describe 3D shapes using familiar terms; to identify properties of 3D shapes.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown is provisional and may be subject to change.

Primary Maths Series - Year 3 Lesson Breakdown

Summer Term – Textbook 3b		
Measurement: Perimeter of Figures		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Perimeter of Figures	Lesson 1 – Measuring Total Length Around a Shape	To determine the perimeter of basic shapes; to use grid paper to measure the perimeter of a shape.
	Lesson 2 – Measuring Perimeter	To measure the perimeter of a shape using 1 cm grid paper.
	Lesson 3 – Measuring Perimeter	To determine the perimeter of different shapes; to create shapes with a specific perimeter.
	Lesson 4 – Measuring Perimeter	To find the perimeter of shapes using 2 cm grids; to identify mistakes in others' work.
	Lesson 5 – Measuring Perimeter	To calculate the perimeter of a shape using a ruler to measure the side lengths.
	Lesson 6 – Calculating Perimeter	To calculate the perimeter of a rectangle using multiplication and addition.
	Lesson 7 – Calculating Perimeter	To calculate the perimeter of a square using addition and multiplication; to calculate the perimeter of rectangles and irregular shapes by adding up the length of each side.
	Lesson 8 – Calculating Perimeter	To consolidate learning about perimeter using practical word problems; to calculate the perimeter of a rectangle using properties of shapes.
	Lesson 9 – Calculating Perimeter	To calculate the perimeter of a square and a rectangle using information previously learned about the properties of shapes.
	Lesson 10 – Calculating Perimeter	To calculate the perimeter of a rectangle when a square piece has been removed; to determine the lengths of sides that are not marked based on information about the piece removed.
	Chapter consolidation	To practise various concepts covered in the chapter.
Week 12	End-Of-Year (B) Tests and Remediation	

The lesson breakdown is provisional and may be subject to change.

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Primary Maths Series, New Edition

Scheme of Work - Year 4

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 4 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 4 at a Glance

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 10 000 <small>LESSON BREAKDOWN</small>	Calculations: Further Multiplication and Division <small>LESSON BREAKDOWN</small>	Measurement: Money <small>LESSON BREAKDOWN</small>
Week 2			
Week 3			
Week 4	Calculations: Addition and Subtraction within 10 000 <small>LESSON BREAKDOWN</small>	Statistics: Graphs <small>LESSON BREAKDOWN</small>	Measurement: Mass, Volume and Length <small>LESSON BREAKDOWN</small>
Week 5			
Week 6		Fractions, Decimals and Percentages: Fractions <small>LESSON BREAKDOWN</small>	Measurement: Area of Figures <small>LESSON BREAKDOWN</small>
Week 7			
Week 8			Measurement: Time <small>LESSON BREAKDOWN</small>
Week 9		Mid-year (A) Tests and Remediation	
Week 10	Calculations: Multiplication and Division <small>LESSON BREAKDOWN</small>	Fractions, Decimals and Percentages: Decimals <small>LESSON BREAKDOWN</small>	Geometry – Position and Direction: Position and Movement <small>LESSON BREAKDOWN</small>
Week 11			Number and Place Value: Roman Numerals <small>LESSON BREAKDOWN</small>
Week 12			Calculations: Further Multiplication and Division <small>LESSON BREAKDOWN</small>

Primary Maths Series - Year 4 Lesson Breakdown

Autumn Term – Textbook 4a		
Number and Place Value: Numbers to 10 000		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 1 – Numbers to 10 000	Lesson 1 – Counting in Hundreds and Twenty-Fives	To count in hundreds and twenty-fives.
	Lesson 2 – Counting in Thousands	To count in thousands.
	Lesson 3 – Counting in Thousands, Hundreds, Tens and Ones	To count in thousands, hundreds, tens and ones.
	Lesson 4 – Using Place Value	To use an understanding of place value to count.
	Lesson 5 – Using Place Value	To understand place value in a 4-digit number.
	Lesson 6 – Comparing and Ordering Numbers	To compare and order numbers.
	Lesson 7 – Comparing and Ordering Numbers	To compare and order 4-digit numbers.
	Lesson 8 – Making Number Patterns	To make number patterns (100, 10, 1 more and less).
	Lesson 9 – Making Number Patterns	To make number patterns (4-digit numbers).
	Lesson 10 – Counting in Sixes, Sevens and Nines	To count in sixes, sevens and nines.
	Lesson 11 – Rounding Numbers	To round numbers to the nearest 1000.
	Lesson 12 – Rounding Numbers	To round numbers to the nearest 10, 100 and 1000.
	Lesson 13 – Rounding Numbers to Estimate	To round numbers to estimate.
	Lesson 14 – Rounding Numbers to Estimate	To round numbers to estimate.
	Lesson 15 - Negative Numbers	To compare and order numbers.
Chapter consolidation	To practise various concepts covered in the chapter.	

Primary Maths Series - Year 4 Lesson Breakdown

Autumn Term – Textbook 4a		
Calculations: Addition and Subtraction		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 – Addition and Subtraction within 10 000	Lesson 1 – Finding Sums	To find totals and sums.
	Lesson 2 – Adding without Renaming	To add without renaming.
	Lesson 3 – Adding with Renaming	To add with renaming (in the ones column).
	Lesson 4 – Adding with Renaming	To add with renaming (in tens and ones).
	Lesson 5 – Adding with Renaming	To add with renaming (in hundreds, tens and ones).
	Lesson 6 – Adding Using Mental Strategies	To add using mental strategies (making tens, hundreds and thousands).
	Lesson 7 – Adding Using Mental Strategies	To add using mental strategies.
	Lesson 8 – Finding Differences	To find the difference.
	Lesson 9 – Subtracting without Renaming	To subtract without renaming (column subtraction).
	Lesson 10 – Subtracting with Renaming	To subtract with renaming (in tens and ones).
	Lesson 11 – Subtracting with Renaming	To subtract with renaming (in hundreds, tens and ones).
	Lesson 12 – Subtracting with Renaming	To subtract with renaming (in hundreds, tens and ones).
	Lesson 13 – Subtracting Using Mental Strategies	To subtract using mental strategies.
	Lesson 14 – Solving Word Problems	To solve addition and subtraction word problems.
	Lesson 15 – Solving Word Problems	To solve word problems (addition and subtraction).
	Lesson 16 – Solving Word Problems	To solve multi-step word problems.
	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.	

The lesson breakdown is provisional and may be subject to minor changes.

Primary Maths Series - Year 4 Lesson Breakdown

Autumn Term – Textbook 4a		
Calculations: Multiplication and Division		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 3 – Multiplication and Division	Lesson 1 – Multiplying by 6	To multiply by 6.
	Lesson 2 – Multiplying by 7	To multiply by 7.
	Lesson 3 – Multiplying by 9	To multiply by 9.
	Lesson 4 – Multiplying by 9	To multiply by 9 (relational understanding).
	Lesson 5 – Multiplying by 11	To multiply by 11.
	Lesson 6 – Multiplying by 11	To multiply by 11.
	Lesson 7 – Multiplying by 12	To multiply by 12.
	Lesson 8 – Dividing by 6	To divide by 6.
	Lesson 9 – Dividing by 7	To divide by 7.
	Lesson 10 – Dividing by 9	To divide by 9.
	Lesson 11 – Multiplying and Dividing by 11 and 12	To multiply and divide by 11 and 12.
	Lesson 12 – Dividing with Remainder	To divide with remainders.
	Lesson 13 – Solving Word Problems	To solve word problems involving multiplication and division.
	Lesson 14 – Solving Word Problems	To solve problems involving multiplication and division.
	Lesson 15 – Solving Word Problems	To solve multi-step problems (in the context of measures).
	Lesson 16 – Solving Word Problems	To solve problems involving multiplication and division (all possibilities).
	Lesson 17 – Solving Word Problems	To solve problems involving multiplication and division (multi-step).
	Lesson 18 – Solving Word Problems	To solve problems involving multiplication and division (scaling/comparison).
	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.	

Primary Maths Series - Year 4 Lesson Breakdown

Autumn Term – Textbook 4a		
Calculations: Further Multiplication and Division		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 4 – Further Multiplication and Division	Lesson 1 – Multiplying by 0 and 1	To multiply by 0 and 1.
	Lesson 2 – Dividing by 1	To divide by 1.
	Lesson 3 – Multiplying the Same Two Numbers	To understand commutativity.
	Lesson 4 – Multiplying Three Numbers	To multiply three numbers.
	Lesson 5 – Multiplying Multiples of 10	To multiply with multiples of 10.

Primary Maths Series - Year 4 Lesson Breakdown

Spring Term – Textbook 4a

Calculations: Further Multiplication and Division (continued from Autumn Term)

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 4 – Further Multiplication and Division	Lesson 6 – Multiplying 2-Digit Numbers	To multiply 2-digit numbers.
	Lesson 7 – Multiplying 2-Digit Numbers	To multiply 2-digit numbers with renaming.
	Lesson 8 – Multiplying Multiples of 100	To multiply multiples of 100.
	Lesson 9 – Multiplying 3-Digit Numbers	To multiply 3-digit numbers.
	Lesson 10 – Multiplying 3-Digit Numbers	To multiply 3-digit numbers (renaming).
	Lesson 11 – Multiplying 3-Digit Numbers	To multiply 3-digit numbers.
	Lesson 12 – Dividing 2-Digit Numbers	To divide 2-digit numbers.
	Lesson 13 – Dividing 3-Digit Numbers	To divide 3-digit numbers.
	Lesson 14 – Dividing 2-Digit Numbers	To divide 2-digit numbers with remainders.
	Lesson 15 – Dividing 3-Digit Numbers	To divide 3-digit numbers.
	Lesson 16 – Dividing 3-Digit Numbers	To divide 3-digit numbers with remainders.
	Lesson 17 – Solving Word Problems	To solve multiplication and division word problems.
	Lesson 18 – Solving Word Problems	To solve multiplication and division word problems (multi-step).
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 4 Lesson Breakdown

Spring Term – Textbook 4a		
Statistics: Graphs		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 5 – Graphs	Lesson 1 – Drawing and Reading Pictograms and Bar Graphs	To draw and read picture graphs and bar graphs.
	Lesson 2 – Drawing and Reading Bar Graphs	To draw and read bar graphs.
	Lesson 3 – Drawing and Reading Line Graphs	To draw and read line graphs.
	Lesson 4 – Drawing and Reading Line Graphs	To draw and read a line graph.
	Lesson 5 – Drawing and Reading Line Graphs	To draw and read line graphs (drawing focus).
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 4 Lesson Breakdown

Spring Term – Textbook 4a

Fractions, Decimals and Percentages: Fractions

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6 – Fractions	Lesson 1 – Counting in Hundredths	To count in hundredths.
	Lesson 2 – Writing Mixed Numbers	To write mixed number fractions.
	Lesson 3 – Showing Mixed Numbers on a Number Line	To show mixed number fractions on a number line.
	Lesson 4 – Finding Equivalent Fractions	To find equivalent fractions.
	Lesson 5 – Finding Equivalent Fractions	To find equivalent fractions (further practise).
	Lesson 6 – Simplifying Mixed Numbers	To simplify mixed number fractions.
	Lesson 7 – Simplifying Improper Fractions	To simplify improper fractions.
	Lesson 8 – Adding Fractions	To add fractions.
	Lesson 9 – Adding Fractions	To add fractions (recording answers as a mixed number).
	Lesson 10 – Adding Fractions	To add fractions (simplest form).
	Lesson 11 – Subtracting Fractions	To subtract fractions.
	Lesson 12 – Subtracting Fractions	To subtract fractions (equivalence).
	Lesson 13 – Solving Word Problems	To solve word problems.
	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.	

Primary Maths Series - Year 4 Lesson Breakdown

Spring Term – Textbook 4a		
Measurement: Time		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7: Time	Lesson 1 – Telling Time on a 24-Hour Clock	To tell the time on a 24-hour clock.
	Lesson 2 – Converting Time in Minutes to Seconds	To convert between minutes and seconds.
	Lesson 3 – Converting Time in Hours to Minutes	To convert between hours and minutes.
	Lesson 4 – Solving Problems on Duration of Time	To solve time problems.
	Lesson 5 – Converting Years to Months and Weeks to Days	To convert between units of time.
	Lesson 6 – Solving Word Problems	To solve word problems (duration).
	Chapter consolidation	To practise various concepts covered in the chapter.
Week 9	Mid-Year (A) Tests and Remediation	

Primary Maths Series - Year 4 Lesson Breakdown

Spring Term – Textbook 4b

Fractions, Decimals and Percentages: Decimals

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8 – Decimals	Lesson 1 – Writing Tenths	To record tenths.
	Lesson 2 – Writing Tenths	To record in tenths.
	Lesson 3 – Writing Tenths	To record in tenths (in different ways).
	Lesson 4 – Writing Hundredths	To write hundredths.
	Lesson 5 – Writing Hundredths	To write hundredths.
	Lesson 6 – Writing Hundredths	To write hundredths (in different ways).
	Lesson 7 – Writing Hundredths	To record hundredths.
	Lesson 8 – Writing Decimals	To write decimal numbers.
	Lesson 9 – Comparing and Ordering Decimals	To compare and order decimal numbers.
	Lesson 10 – Comparing and Ordering Decimals	To compare and order decimal numbers.
	Lesson 11 – Comparing and Ordering Decimals	To compare and order decimal numbers.
	Lesson 12 – Making Number Patterns	To create number sequences.
	Lesson 13 – Rounding Decimals	To round decimal numbers.
	Lesson 14 – Rounding Decimals	To round decimal numbers.
	Lesson 15 – Writing Fractions as Decimals	To write fractions as decimal numbers.
	Lesson 16 – Dividing Whole Numbers by 10	To divide whole numbers by 10.
	Lesson 17 – Dividing Whole Numbers by 100	To divide whole numbers by 100.
Chapter consolidation	To practise various concepts covered in the chapter.	

Primary Maths Series - Year 4 Lesson Breakdown

Summer Term – Textbook 4b

Measurement: Money

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – Money	Lesson 1 – Writing Amounts of Money	To record amounts of money.
	Lesson 2 – Writing Amounts of Money	To record amounts of money.
	Lesson 3 – Comparing Amounts of Money	To compare total amounts of money.
	Lesson 4 – Rounding Amounts of Money	To round to the nearest pound (whole number).
	Lesson 5 – Solving Problems Involving Money	To solve money problems (addition and subtraction).
	Lesson 6 – Solving Problems Involving Money	To solve money problems (multiplication).
	Lesson 7 – Solving Problems Involving Money	To solve money problems (comparison).
	Lesson 8 – Estimating Amounts of Money	To estimate amounts of money.
	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.

Primary Maths Series - Year 4 Lesson Breakdown

Summer Term – Textbook 4b

Measurement: Mass, Volume and Length

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10 – Mass, Volume and Length	Lesson 1 – Measuring Mass	To measure mass.
	Lesson 2 – Measuring Mass	To measure mass.
	Lesson 3 – Converting Units of Mass	To convert units of mass.
	Lesson 4 – Measuring Volume	To measure volume.
	Lesson 5 – Measuring Volume	To measure volume.
	Lesson 6 – Converting Units of Volume	To convert units of volume.
	Lesson 7 – Measuring Height	To measure height.
	Lesson 8 – Measuring Length	To measure length.
	Lesson 9 – Converting Units of Length	To convert units of length.
	Lesson 10 – Converting Units of Length	To convert units of length.
	Lesson 11 – Measuring Perimeters in Different Units	To measure perimeter in centimetres and millimetres.
	Lesson 12 – Solving Problems Involving Scale Reading	To solve problems in measurement (reading scales).
	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.

Primary Maths Series - Year 4 Lesson Breakdown

Summer Term – Textbook 4b		
Measurement: Area of Figures		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – Area of Figures	Lesson 1 – Measuring the Surface that an Object Covers	To find area (by measuring surface coverage).
	Lesson 2 – Measuring Area	To measure area.
	Lesson 3 – Measuring Area	To measure area (counting squares).
	Lesson 4 – Measuring Area	To measure area (counting squares and half squares).
	Lesson 5 – Measuring Area	To measure area (using multiplication).
	Lesson 6 – Measuring Area	To measure area (shapes in different orientations).
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 4 Lesson Breakdown

SUMMER TERM – TEXTBOOK 4B

Geometry – Properties of Shapes: Geometry

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Geometry	Lesson 1 – Knowing Types of Angles	To identify types of angles.
	Lesson 2 – Comparing Angles	To compare angles.
	Lesson 3 – Classifying Triangles	To classify triangles.
	Lesson 4 – Classifying Quadrilaterals	To classify quadrilaterals.
	Lesson 5 – Identifying Symmetrical Figures	To identify symmetrical figures.
	Lesson 6 – Drawing Lines of Symmetry	To draw lines of symmetry.
	Lesson 7 – Completing Symmetrical Figures	To draw symmetrical figures.
	Lesson 8 – Making Symmetrical Figures	To make symmetrical figures.
	Lesson 9 – Completing Symmetrical Figures	To complete symmetrical figures.
	Lesson 10 – Sorting Shapes	To sort shapes.
	Chapter consolidation	To practise various concepts covered in the chapter.
	1–2 consolidation days	To be used if lessons take longer than expected or a topic needs to be revisited.

Primary Maths Series - Year 4 Lesson Breakdown

Summer Term – Textbook 4b

Geometry – Position and Direction: Position and Movement

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 – Position and Movement	Lesson 1 – Describing Position	To describe position.
	Lesson 2 – Describing Position	To describe position.
	Lesson 3 – Plotting Points	To plot coordinates.
	Lesson 4 – Describing Movements	To describe movements.
	Lesson 5 – Describing Movements	To describe movements (coordinates).
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 4 Lesson Breakdown

Summer Term – Textbook 4b

Number and Place Value: Roman Numerals

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Roman Numerals	Lesson 1 – Writing Roman Numerals for 1 to 20	To write Roman numerals (to 20).
	Lesson 2 – Writing Roman Numerals to 100	To write Roman numerals to 100.
	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.
Week 12	End-Of-Year (B) Tests and Remediation	

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Primary Maths Series, New Edition

Scheme of Work - Year 5

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 5 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 5 at a Glance

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 1 000 000 LESSON BREAKDOWN	Fractions, Decimals and Percentages: Fractions LESSON BREAKDOWN	Geometry – Position and Direction: Position and Movement LESSON BREAKDOWN
Week 2			Measurement: Measurements LESSON BREAKDOWN
Week 3	Measurement: Area and Perimeter LESSON BREAKDOWN		
Week 4			
Week 5	Calculations: Addition and Subtraction LESSON BREAKDOWN	Mid-year (A) Tests and Remediation	Measurement: Area and Perimeter LESSON BREAKDOWN
Week 6	Calculations: Multiplication and Division LESSON BREAKDOWN	Fractions, Decimals and Percentages: Decimals LESSON BREAKDOWN	
Week 7			Fractions, Decimals and Percentages: Percentage LESSON BREAKDOWN
Week 8		Calculations: Word Problems LESSON BREAKDOWN	
Week 9	Statistics: Graphs LESSON BREAKDOWN		Geometry – Properties of Shapes: Geometry LESSON BREAKDOWN
Week 10		End-of-year (B) Tests and Remediation	
Week 11			
Week 12			

Primary Maths Series - Year 5 Lesson Breakdown

Autumn Term – Textbook 5a

Number and Place Value: Numbers to 1 000 000

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 1 – Numbers to 1 000 000	Lesson 1 – Reading and Writing Numbers to 100 000	To read and represent numbers to 100 000.
	Lesson 2 – Reading and Writing Numbers to 1 000 000	To read and represent numbers to 1 000 000.
	Lesson 3 – Reading and Writing Numbers to 1 000 000	To read and represent numbers to 1 000 000 using number discs.
	Lesson 4 – Comparing Numbers to 1 000 000	To compare numbers to 1 000 000 using place value.
	Lesson 5 – Comparing Numbers to 1 000 000	To compare numbers to 1 000 000 using place value.
	Lesson 6 – Comparing Numbers to 1 000 000	To compare numbers to 1 000 000 using pictorial representations and proportionality.
	Lesson 7 – Comparing Numbers to 1 000 000	To compare numbers to 1 000 000 from pictorial representations, using lists and number lines.
	Lesson 8 – Making Number Patterns	To make and identify patterns in numbers using knowledge of place value.
	Lesson 9 – Making Number Patterns	To make number patterns that decrease in multiples of 10 000 or 100 000.
	Lesson 10 – Rounding Numbers to the Nearest 10 000	To round numbers to the nearest 10 000 using number lines and bar graphs.
	Lesson 11 – Rounding Numbers to the Nearest 100 000	To round numbers to the nearest 100 000 using number lines and bar graphs.
	Lesson 12 – Rounding Numbers	To round numbers to the nearest 100, 1000, 10 000 and 100 000 using number lines.
	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.

Primary Maths Series - Year 5 Lesson Breakdown

Autumn Term – Textbook 5a

Calculations: Addition and Subtraction

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 – Whole Numbers: Addition and Subtraction	Lesson 1 – Counting On to Add	To add using the 'counting on' strategy with concrete materials and number lines.
	Lesson 2 – Adding within 1 000 000	To add numbers within 1 000 000 using rounding.
	Lesson 3 – Adding within 1 000 000	To add numbers within 1 000 000 using the column method of addition.
	Lesson 4 – Adding within 1 000 000	To consolidate and refine addition skills and place-value knowledge to solve addition problems.
	Lesson 5 – Counting Backwards to Subtract	To subtract using the 'counting backwards' strategy with concrete materials.
	Lesson 6 – Subtracting within 1 000 000	To subtract using the column method and number discs using numbers to 1 000 000.
	Lesson 7 – Subtracting within 1 000 000	To subtract using the column method and number discs using numbers to 1 000 000.
	Lesson 8 – Subtracting within 1 000 000	To subtract numbers to 1 000 000 using the column method and number discs using numbers to 1 000 000.
	Lesson 9 – Adding and Subtracting within 1 000 000	To use addition and subtraction to solve comparison problems with numbers to 1 000 000.
	Lesson 10 – Adding and Subtracting within 1 000 000	To consolidate and refine addition and subtraction skills and place-value knowledge to solve problems.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 5 Lesson Breakdown

Autumn Term – Textbook 5a		
Calculations: Multiplication and Division		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 3 – Whole Numbers: Multiplication and Division	Lesson 1 – Finding Multiples	To consolidate and review multiplication; to find the result of multiplying by a number.
	Lesson 2 – Finding Factors	To consolidate and review multiplication; to find the numbers we can multiply by to get a number.
	Lesson 3 – Finding Common Factors	To define and find common factors of numbers to 100.
	Lesson 4 – Finding Prime Numbers	To identify and name the prime numbers; to recognise prime numbers as numbers that only have 2 factors.
	Lesson 5 – Prime Numbers and Composite Numbers	To define and determine prime numbers and composite numbers.
	Lesson 6 – Finding Square and Cube Numbers	To create and determine square and cubed numbers.
	Lesson 7 – Multiplying by 10, 100 and 1000	To multiply 1- and 2-digit numbers by 10, 100 and 1000.
	Lesson 8 – Multiplying 2-Digit or 3-Digit Numbers by a Single Digit	To multiply 2- and 3-digit numbers by a 1-digit number using multiple strategies.
	Lesson 9 – Multiplying 4-Digit Numbers	To multiply 4-digit numbers by 1-digit numbers.
	Lesson 10 – Multiplying 4-Digit Numbers	To multiply 4-digit numbers by 1-digit numbers with regrouping, using a variety of strategies.
	Lesson 11 – Multiplying 4-Digit Numbers	To multiply a 4-digit number by a 1-digit number, with regrouping from the ones, tens and hundreds, using multiple methods.
	Lesson 12 – Multiplying a 2-Digit Number by a 2-Digit Number	To multiply 2-digit numbers by 2-digit numbers using multiple methods.
	Lesson 13 – Multiplying a 2-Digit Number by a 2-Digit Number	To multiply a 2-digit number by a 2-digit number using multiple methods, including the grid method, number bonds and column method, with regrouping.
	Lesson 14 – Multiplying a 3-Digit Number by a 2-Digit Number	To multiply a 3-digit number by a 2-digit number, with the grid method and column method as key strategies.

Continued overleaf 

Primary Maths Series - Year 5 Lesson Breakdown

Autumn Term – Textbook 5a

Calculations: Multiplication and Division (continued)

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 3 – Whole Numbers: Multiplication and Division	Lesson 15 – Multiplying a 3-Digit Number by a 2-Digit Number	To multiply a 3-digit number by a 2-digit number with regrouping, using the column method as the key strategy.
	Lesson 16 – Dividing by 10, 100 and 1000	To find thousands, hundreds and tens in a 4-digit number using concrete materials.
	Lesson 17 – Dividing without Remainder	To divide 3- and 4-digit numbers by 1-digit numbers, using number bonds and long division as the key methods.
	Lesson 18 – Dividing without Remainder	To divide 4-digit numbers by 1-digit numbers, using number bonds and long division as the key methods.
	Lesson 19 – Dividing with Remainder	To divide 3-digit numbers by 1-digit numbers, using long division, short division and mental methods, that give rise to remainders.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 5 Lesson Breakdown

Autumn Term – Textbook 5a		
Calculations: Word Problems		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 4 – Whole Numbers: Word Problems	Lesson 1 – Solving Word Problems using Multiplication and Division	To solve word problems involving multiple operations; to identify the operation needed to carry out the plan.
	Lesson 2 – Solving Word Problems Using Bar Models	To solve word problems involving multiplication and division using bar models as the main heuristic.
	Lesson 3 – Solving Multi-Step Word Problems	To solve word problems involving multiple operations, identifying key information and representing information using bar model diagrams.
	Lesson 4 – Solving Multi-Step Word Problems	To solve word problems involving multiple operations, using bar models as they key heuristic to represent key information.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 5 Lesson Breakdown

Autumn Term – Textbook 5a		
Statistics: Graphs		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 5 – Graphs	Lesson 1 – Reading Tables	To read the information presented in a table and interpret its meaning.
	Lesson 2 – Reading Tables	To read and respond to information presented in a table.
	Lesson 3 – Reading Tables	To read and respond to tables that have a variety of data sets.
	Lesson 4 – Reading Line Graphs	To read and interpret information provided in a line graph where a single line represents the data.
	Lesson 5 – Reading Line Graphs	To read and interpret information presented on a line graph where the data is represented by more than one line.
	Lesson 6 – Reading Line Graphs	To read and interpret information presented on a line graph where the data is represented by more than one line.
	Lesson 7 – Reading Line Graphs	To read and interpret information presented in a table and turn it into a line graph; to determine relationships between data sets.
	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.

Primary Maths Series - Year 5 Lesson Breakdown

Spring Term – Textbook 5a

Fractions, Decimals and Percentages: Fractions

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6 – Fractions	Lesson 1 – Dividing to Make Fractions	To divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers.
	Lesson 2 – Writing Improper Fractions and Mixed Numbers	To write improper fractions and mixed numbers using a number line and pictorial methods.
	Lesson 3 – Finding Equivalent Fractions	To find equivalent fractions using pictorial methods.
	Lesson 4 – Comparing and Ordering Fractions	To compare and order fractions using the pictorial method.
	Lesson 5 – Comparing and Ordering Improper Fractions	To compare and order improper fractions using the pictorial method.
	Lesson 6 – Comparing and Ordering Mixed Numbers	To compare mixed numbers using pictorial representations; to find common denominators where one fraction is already the common denominator for all fractions in the question.
	Lesson 7 – Making Number Pairs	To make number pairs (number bonds) with fractions with different denominators.
	Lesson 8 – Adding Fractions	To add unlike fractions by finding a common denominator using pictorial methods.
	Lesson 9 – Adding Fractions	To add unlike fractions by finding a common denominator using pictorial methods.
	Lesson 10 – Adding Fractions	To add together unlike fractions where the sum is greater than 1, creating mixed numbers or improper fractions.
	Lesson 11 – Adding Fractions	To add unlike fractions which create improper fractions and mixed numbers that give rise to simplification.
	Lesson 12 – Subtracting Fractions	To subtract fractions with different denominators; to subtract fractions from whole numbers.
	Lesson 13 – Subtracting Fractions	To subtract fractions where the denominators are not the same; to use bar models as a key strategy for subtracting fractions.
	Lesson 14 – Subtracting Fractions	To subtract fractions and mixed numbers from mixed numbers with different denominators.
	Lesson 15 – Multiplying Whole Numbers by Proper Fractions	To multiply fractions by whole numbers creating other fractions, mixed numbers or improper fractions.

Primary Maths Series - Year 5 Lesson Breakdown

Spring Term – Textbook 5a

Fractions, Decimals and Percentages: Fractions (continued)

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6 – Fractions	Lesson 16 – Multiplying Proper Fractions and Whole Numbers	To multiply fractions by whole numbers where the product is an improper fraction or mixed number.
	Lesson 17 – Multiplying Mixed Numbers and Whole Numbers	To multiply mixed numbers by whole numbers, creating larger mixed numbers.
	Lesson 18 – Multiplying Mixed Numbers and Whole Numbers	To multiply mixed numbers by whole numbers in multi-step word problems.
	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.
Week 5	Mid-Year (A) Tests and Remediation	

Primary Maths Series - Year 5 Lesson Breakdown

Spring Term – Textbook 5b

Fractions, Decimals and Percentages: Decimals

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7 – Decimals	Lesson 1 – Writing Decimals	To write decimal numbers.
	Lesson 2 – Reading and Writing Decimals	To read and write decimals.
	Lesson 3 – Reading and Writing Decimals	To read and write decimals.
	Lesson 4 – Comparing Decimals	To compare tenths and hundredths written as decimals.
	Lesson 5 – Comparing Decimals	To order and compare decimals.
	Lesson 6 – Comparing Decimals	To compare and order decimals of amounts.
	Lesson 7 – Writing Fractions as Decimals	To write fractions as decimals.
	Lesson 8 – Adding and Subtracting Decimals	To add and subtract amounts in decimals.
	Lesson 9 – Adding and Subtracting Decimals	To add and subtract decimals; to add and subtract amounts in pounds and pence.
	Lesson 10 – Adding and Subtracting Decimals	To add and subtract amounts in pounds and pence.
	Lesson 11 – Adding and Subtracting Decimals	To add and subtract decimals; to add and subtract amounts in pounds and pence.
	Lesson 12 – Adding and Subtracting Decimals	To add and subtract decimals to find the smallest possible sum and difference.
	Lesson 13 – Adding and Subtracting Decimals	To add and subtract decimals; to find number pairs that add up to 1.
	Lesson 14 – Adding and Subtracting Decimals	To add and subtract the perimeter of an object using decimals.
	Lesson 15 – Rounding Decimals	To round decimals to the nearest whole number; to round numbers to nearest tenth.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

Primary Maths Series - Year 5 Lesson Breakdown

Spring Term – Textbook 5b

Fractions, Decimals and Percentages: Percentage

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8 – Percentage	Lesson 1 – Comparing Quantities	To compare quantities; to compare fractions, decimals and percentages; to convert fractions to decimals and percentages.
	Lesson 2 – Finding Percentages	To convert values of an amount into percentages; to convert fractions into percentages.
	Lesson 3 – Finding Percentages	To convert values of an amount into percentages; to convert fractions into percentages.
	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.

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

Primary Maths Series - Year 5 Lesson Breakdown

Spring Term – Textbook 5b

Geometry – Properties of Shapes: Geometry

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – Geometry	Lesson 1 – Knowing Types of Angles	To know the names and qualities of acute, right, obtuse and reflex angles.
	Lesson 2 – Measuring Angles	To measure angles using a protractor.
	Lesson 3 – Measuring Angles	To draw, measure and add angles using a protractor.
	Lesson 4 – Investigating Angles on a Line	To measure angles using a protractor; to identify two angles which add up to 180 degrees on a straight line.
	Lesson 5 – Investigating Angles at a Point	To investigate angles that, when combined, make 360 degrees.
	Lesson 6 – Drawing Angles	To draw angles using a protractor.
	Lesson 7 – Drawing Lines and Angles	To draw lines and angles with a high level of accuracy.
	Lesson 8 – Describing Squares and Rectangles	To describe the sides and angles of both rectangles and squares.
	Lesson 9 – Investigating Angles in Squares and Rectangles	To investigate the angles of various quadrilaterals, including squares and rectangles.
	Lesson 10 – Solving Problems Involving Angles in Rectangles	To solve problems involving angles in rectangles.
	Lesson 11 – Solving Problems Involving Angles	To solve problems involving angles.
	Lesson 12 – Solving Problems Involving Angles	To use our understanding of angles to solve problems.
	Lesson 13 – Investigating Regular Polygons	To investigate regular polygons.
	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.

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

Primary Maths Series - Year 5 Lesson Breakdown

Summer Term – Textbook 5b

Geometry – Position and Direction: Position and Movement

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10 – Position and Movement	Lesson 1 – Naming and Plotting Points	To name and plot points.
	Lesson 2 – Describing Translations	To describe the position of a shape following a translation.
	Lesson 3 – Describing Movements	To describe movements and reflecting shapes.
	Lesson 4 – Describing Movements	To describe the movement of a 2-D shape when reflected.
	Lesson 5 – Successive Reflections	To reflect a shape more than once.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

Primary Maths Series - Year 5 Lesson Breakdown

Summer Term – Textbook 5b

Measurement: Measurements

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – Measurements	Lesson 1 – Converting Units of Length	To convert units of length.
	Lesson 2 – Converting Units of Length	To convert units of length, including centimetres and metres.
	Lesson 3 – Converting Units of Length	To convert units of length.
	Lesson 4 – Converting Units of Length	To solve problems by converting units of length.
	Lesson 5 – Converting Units of Mass	To convert units of mass.
	Lesson 6 – Converting Units of Mass	To convert units of mass, including grams into kilograms.
	Lesson 7 – Converting Units of Mass	To convert units of mass.
	Lesson 8 – Converting Units of Mass	To convert units of mass, including kilograms and pounds.
	Lesson 9 – Converting Units of Time	To convert units of time.
	Lesson 10 – Converting Units of Time	To convert units of time from days into weeks and months.
	Lesson 11 – Converting Units of Time	To convert units of time.
	Lesson 12 – Converting Units of Time	To solve problems by converting units of time.
	Lesson 13 – Converting Units of Time	To convert units of time.
	Lesson 14 – Telling the Temperature	To read the temperature on a thermometer.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

Primary Maths Series - Year 5 Lesson Breakdown

Summer Term – Textbook 5b

Measurement: Area and Perimeter

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Area and Perimeter	Lesson 1 – Finding the Perimeter	To find the perimeter of shapes.
	Lesson 2 – Finding the Perimeter	To find shapes with a specific perimeter.
	Lesson 3 – Finding the Perimeter	To find the perimeter of different shapes.
	Lesson 4 – Using Scale Diagrams to Find the Perimeter	To use scale diagrams to find the perimeter of a shape.
	Lesson 5 – Measuring the Area	To measure the area of shapes by counting squares.
	Lesson 6 – Measuring the Area	To measure the area of squares.
	Lesson 7 – Measuring the Area	To measure the area of a shape.
	Lesson 8 – Measuring the Area	To measure area in square metres.
	Lesson 9 – Measuring the Area	To measure area in square metres.
	Lesson 10 – Measuring the Area	To find the area of shapes in square metres.
	Lesson 11 – Estimating the Area	To make an estimation of area in kilometres.
	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.

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

Primary Maths Series - Year 5 Lesson Breakdown

Summer Term – Textbook 5b

Measurement: Volume

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 – Volume	Lesson 1 – Understanding the Volume of Solids	To understand the volume of solids.
	Lesson 2 – Finding the Volume of Solids	To find the volume of 3-D shapes.
	Lesson 3 – Finding the Volume of Solids	To find the volume of solids.
	Lesson 4 – Finding the Capacity of Rectangular Boxes	To find the capacity of a cuboid.
	Lesson 5 – Finding the Capacity of Rectangular Boxes	To find the capacity of rectangular boxes.
	Lesson 6 – Converting Units of Volume	To compare and convert units of volume.
	Lesson 7 – Converting Units of Volume	To convert units of volume (metric and imperial).
	Lesson 8 – Converting Units of Volume	To convert units of volume (metric and imperial).
	Lesson 9 – Solving Word Problems Involving Volume	To solve word problems involving volume.
	Lesson 10 – Solving Word Problems Involving Volume	To solve word problems involving volume.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

Primary Maths Series - Year 5 Lesson Breakdown

Summer Term – Textbook 5b		
Number and Place Value: Roman Numerals		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Roman Numerals	Lesson 1 – Writing Roman Numerals to 1000	To write Roman numerals to 1000.
	Lesson 2 – Writing Years in Roman Numerals	To write numbers in their thousands in Roman numerals.
	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.
Week 11	Review And Revision	
Week 12	End-Of-Year (B) Tests and Remediation	

The lesson breakdown for Textbook 5B is provisional and may be subject to minor changes.

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Primary Maths Series, New Edition

Scheme of Work - Year 6

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 6 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 6 at a Glance

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 10 Million <small>LESSON BREAKDOWN</small>	Measurement: Measurements <small>LESSON BREAKDOWN</small>	Geometry – Position and Direction: Position and Movement <small>LESSON BREAKDOWN</small>
Week 2	Calculations: Four Operations on Whole Numbers <small>LESSON BREAKDOWN</small>	Word Problems <small>LESSON BREAKDOWN</small>	Statistics: Graphs and Averages <small>LESSON BREAKDOWN</small>
Week 3		Mid-year (A) Tests and Remediation	SATs
Week 4		Fractions, Decimals and Percentages: Percentage <small>LESSON BREAKDOWN</small>	Number and Place Value: Negative Numbers <small>LESSON BREAKDOWN</small>
Week 5		Ratio and Proportion: Ratio <small>LESSON BREAKDOWN</small>	Measurement: Volume <small>LESSON BREAKDOWN</small>
Week 6	Fractions, Decimals and Percentages: Fractions <small>LESSON BREAKDOWN</small>	Algebra: Algebra <small>LESSON BREAKDOWN</small>	Geometry – Properties and Shapes: Geometry <small>LESSON BREAKDOWN</small>
Week 7		Measurement: Area and Perimeter <small>LESSON BREAKDOWN</small>	Geometry – Position and Direction: Position and Movement <small>LESSON BREAKDOWN</small>
Week 8			Statistics: Graphs and Averages <small>LESSON BREAKDOWN</small>
Week 9	Fractions, Decimals and Percentages: Decimals <small>LESSON BREAKDOWN</small>	Geometry – Properties and Shapes: Geometry <small>LESSON BREAKDOWN</small>	Revision and End-of-year (B) Tests
Week 10			
Week 11			
Week 12			Revisit Topics

Primary Maths Series - Year 6 Lesson Breakdown

Autumn Term – Textbook 6a

Number and Place Value: Numbers to 10 Million

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 1 – Numbers to 10 Million	Lesson 1 – Reading and Writing Numbers to 10 Million	To construct and record numbers to 10 000 000; to recognise the value of digits to 10 000 000.
	Lesson 2 – Comparing Numbers to 10 Million	To compare numbers to 10 000 000 using place value.
	Lesson 3 – Comparing and Ordering Numbers to 10 Million	To compare and order numbers to 10 000 000; to create combinations of numbers using a fixed number of digits.
	Lesson 4 – Rounding Numbers	To round numbers to 10 000 000 to the nearest million, hundred thousand and ten thousand.
	Lesson 5 – Rounding Numbers	To round numbers to the nearest appropriate number up to and including millions; to determine when rounding is appropriate and to which value.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 6 Lesson Breakdown

Autumn Term – Textbook 6a

Calculations: Four Operations on Whole Numbers

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 – Four Operations on Whole Numbers	Lesson 1 – Using Mixed Operations	To use multiple operations and create expressions from a picture; to use the order of operations to solve expressions.
	Lesson 2 – Order of Operations	To create and solve expressions using the four operations.
	Lesson 3 – Multiplying by Tens	To multiply numbers by multiples of 10; to use number bonds as a key strategy in multiplication.
	Lesson 4 – Multiplying a 3-Digit Number by a 3-Digit Number	To multiply 3- and 4-digit numbers by 2-digit numbers without regrouping or renaming; to use both number bonds and the column method as key strategies.
	Lesson 5 – Multiplying by a 2-Digit Number	To multiply 3- and 4-digit numbers by 2-digit numbers without regrouping or renaming; to use both number bonds and the column method as key strategies.
	Lesson 6 – Multiplying by a 3-Digit Number by a 2-Digit Number	To multiply 3- and 4-digit numbers by 2-digit numbers with regrouping and renaming; to use number bonds and pattern recognition as key strategies for multiplication.
	Lesson 7 – Multiplying a 4-Digit Number by a 2-Digit Number	To multiply 3- and 4-digit numbers by 2-digit numbers with regrouping and renaming; to use number bonds and the column method as key strategies.
	Lesson 8 – Multiplying by a 2-Digit Number	To estimate products of multiplying 3- and 4-digit numbers by a 2-digit numbers; to use knowledge of multiplication to create specific products.
	Lesson 9 – Dividing by a 2-Digit Number	To divide 3-digit numbers by 2-digit numbers using a variety of strategies; to use number bonds, long division and bar models to facilitate division by 2-digit numbers.
	Lesson 10 – Dividing by a 2-Digit Number	To divide 4-digit numbers by 2-digit numbers; to use number bonds and long division as the key strategies.
	Lesson 11 – Dividing by a 2-Digit Number	To divide 4-digit numbers by 2-digit numbers using a variety of methods; to use number bonds, long and short division as key methods.
	Lesson 12 – Dividing by a 2-Digit Number with Remainder	To divide 3-digit numbers by 2-digit numbers giving rise to remainders; to use number bonds and long and short division as key strategies to solve division problems.
	Lesson 13 – Dividing by a 2-Digit Number with Remainder	To divide 4-digit numbers by 2-digit numbers giving rise to a remainder; to represent the remainder as part of a whole amount of money or decimal.

Continued overleaf 

Primary Maths Series - Year 6 Lesson Breakdown

Autumn Term – Textbook 6a

Calculations: Four Operations on Whole Numbers (continued)

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 – Four Operations on Whole Numbers	Lesson 14 – Solving Word Problems Using Bar Models	To use the bar model heuristic to solve word problems involving multiplication and division.
	Lesson 15 – Solving Word Problems Using Patterns	To solve word problems using division as the main strategy; to use pictorial representations to support word problems.
	Lesson 16 – Solving Word Problems Using Multiple Methods	To solve word problems involving multiple operations, including multiplication and division.
	Lesson 17 – Finding Common Multiples	To find common multiples in real-life situations; to use common multiples in tandem with knowledge of time.
	Lesson 18 – Finding Common Multiples	To use common multiples to solve problems; to organise mathematical thinking into tables and lists.
	Lesson 19 – Finding Common Factors	To find the largest common factor of 3-digit numbers; to use multiplication and division to find largest common factors.
	Lesson 20 – Finding Common Factors	To find common factors using concrete materials.
	Lesson 21 – Finding Prime Numbers	To use prime numbers to create other numbers; to explore prime numbers above 100.
	Lesson 22 – Finding Prime Numbers	To explore prime numbers using concrete materials; to identify prime numbers using multiplication or division.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 6 Lesson Breakdown

Autumn Term – Textbook 6a		
Fractions, Decimals and Percentages: Fractions		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 3 – Fractions	Lesson 1 – Simplifying Fractions Using Common Factors	To use concrete materials to simplify fractions; to recognise equivalence in fractions to $\frac{1}{4}$.
	Lesson 2 – Simplifying Fractions Using Common Factors	To simplify fractions using division and common factors; to represent fractions using concrete materials and pictorial representations.
	Lesson 3 – Comparing and Ordering Fractions	To compare fractions and place them in order from smallest to largest.
	Lesson 4 – Comparing and Ordering Improper Fractions	To compare and order fractions by finding common denominators.
	Lesson 5 – Comparing and Ordering Fractions and Mixed Numbers	To compare and order fractions using common factors.
	Lesson 6 – Adding and Subtracting Unlike Fractions	Adding and subtracting fractions with different denominators; using pictorial representations to compare fractions and add/subtract.
	Lesson 7 – Adding and Subtracting Unlike Fractions	To add and subtract fractions with different denominators.
	Lesson 8 – Adding and Subtracting Mixed Numbers	To add and subtract mixed numbers, including fractions with different denominators; to subtract from the whole and add the remainder back on.
	Lesson 9 – Adding and Subtracting Mixed Numbers	To add and subtract fractions with different denominators; to add and subtract mixed numbers.
	Lesson 10 – Multiplying Pairs of Proper Fractions	To multiply fractions using pictorial representations and abstract methods.
	Lesson 11 – Multiplying Pairs of Proper Fractions	To determine if the commutative law applies to fractions; to multiply fractions using concrete materials and pictorial representations.
	Lesson 12 – Multiplying Pairs of Proper Fractions	To use concrete materials to understand and solve the multiplication of fractions; to simplify equations using pattern blocks.
	Lesson 13 – Dividing a Fraction by a Whole Number	To divide a fraction by a whole number; to use pictorial representation to divide whole numbers into fractions.
	Lesson 14 – Dividing a Fraction by a Whole Number	To divide fractions by whole numbers using concrete materials and pictorial representations; to divide fractions when the numerator and divisor are not easily divisible.
	Lesson 15 – Dividing a Fraction by a Whole Number	To divide fractions by a whole number; to use pictorial representations to support division.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 6 Lesson Breakdown

Autumn Term – Textbook 6a

Fractions, Decimals and Percentages: Decimals

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 4 – Decimals	Lesson 1 – Reading and Writing Decimals	To read and write decimals to thousandths; to use concrete materials to represent decimals.
	Lesson 2 – Dividing Whole Numbers by Multiples of 10	To divide whole numbers by larger whole numbers; to use Base 10 materials to represent tenths, hundredths and thousandths.
	Lesson 3 – Dividing Whole Numbers	To divide whole numbers that give rise to decimals; to calculate decimal fraction equivalents using long division.
	Lesson 4 – Writing Fractions as Decimals	To convert fractions into decimals using bar models and long division.
	Lesson 5 – Writing Fractions as Decimals	To write fractions as decimals; to use long division as the key strategy for turning fractions into decimals.
	Lesson 6 – Multiplying Decimals without Regrouping	To multiply decimals by whole numbers using partitioning or the worded method to help find the solution.
	Lesson 7 – Multiplying Decimals with Regrouping	To multiply whole numbers that include a decimal by other whole numbers; to use partitioning and the worded method as key strategies.
	Lesson 8 – Multiplying Decimals with Regrouping	To multiply decimals by whole numbers, including regrouping and renaming.
	Lesson 9 – Multiplying Decimals with Regrouping	To multiply decimals by whole numbers using a variety of methods; to use the heuristic 'making a list' to help solve a problem.
	Lesson 10 – Dividing Decimals without Regrouping	To divide decimals using number bonds and number discs as the key strategies.
	Lesson 11 – Dividing Decimals with Regrouping	To divide decimals using bar models, number bonds and long division as key strategies, including regrouping and renaming.
	Lesson 12 – Multiplying a Decimal by a 2-Digit Whole Number	To multiply decimals by a 2-digit whole number using number discs and the column method.
	Lesson 13 – Dividing a Decimal by a 2-Digit Whole Number	To divide decimals by 2-digit numbers using number bonds and the worded method.
	Lesson 14 – Dividing a Decimal by a 2-Digit Whole Number	To divide decimals by 2-digit whole numbers using number bonds and the worded method.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6a

Measurement: Measurements

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 5 – Measurements	Lesson 1 – Converting Units of Length : Millimetres and Centimetres	To convert common measurements into centimetres and millimetres.
	Lesson 2 – Converting Units of Length : Metres and Centimetres	To convert units of measure into different units; to use knowledge of decimals and fractions to help convert units.
	Lesson 3 – Converting Units of Length : Kilometres and Metres	To convert metres into kilometres as units of measure.
	Lesson 4 - Converting Units of Length: Miles and Kilometres.	To convert distances between miles and kilometres.
	Lesson 5 – Converting Units of Mass	To convert units of mass from grams to kilograms using decimals and fractions.
	Lesson 6 – Converting Units of Volume	To convert units of volume from millilitres to litres.
	Lesson 7 – Converting Units of Time	To convert units of time from minutes to hours; to represent time using 24-hour notation.
	Chapter consolidation	To practise various concepts covered in the chapter.

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6a

Word Problems

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 6 – Word Problems	Lesson 1 – Solving Word Problems	To use bar models to solve word problems involving the four operations.
	Lesson 2 – Solving Word Problems	To use the bar model heuristic to solve word problems involving money.
	Lesson 3 – Solving Word Problems	To use the bar model heuristic to solve complex word problems involving ratio.
	Lesson 4 – Solving Word Problems	To use the bar model heuristic to solve complex word problems involving time.
	Lesson 5 – Solving Word Problems	To solve word problems that apply the bar model heuristic and involve fractions.
	Lesson 6 – Solving Word Problems	To create and solve complex word problems using the four operations.
	Chapter consolidation	To practise various concepts covered in the chapter.
Week 3	Mid-Year (A) Tests and Remediation	

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6b

Fractions, Decimals and Percentages: Percentage

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 7 – Percentage	Lesson 1 – Finding the Percentage of a Number	To find the percentage of a whole number using division and multiplication; to use bar modelling as a pictorial approach to calculating percentage.
	Lesson 2 – Finding the Percentage of a Quantity	To find the percentage of a quantity; to use bar model diagrams to support the division and multiplication of numbers towards the percentage.
	Lesson 3 – Finding Percentage Change	To find the percentage change in an amount over time; to calculate the percentage change where the number gives rise to a decimal.
	Lesson 4 – Using Percentage to Compare	To use percentage, bar models and fractions to compare amounts.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6b

Ratio and Proportion: Ratio

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8 – Ratio	Lesson 1 – Comparing Quantities	To use ratios and fractions to compare objects; to find the relationship between ratios, percentages and fractions.
	Lesson 2 – Comparing Quantities	To determine the ratio of a quantity using concrete materials; to simplify ratios using concrete materials in addition to division.
	Lesson 3 – Comparing Quantities	To compare more than two quantities using the term 'ratio'; to use bar models to express ratios where there is more than one quantity.
	Lesson 4 – Comparing Quantities	To compare quantity using both fractions and ratios; to use bar model diagrams to represent ratios.
	Lesson 5 – Comparing Quantities	To compare quantities using bar models and common factors; to use multiplication and division to simplify ratios.
	Lesson 6 – Comparing Numbers	To compare numbers using ratios; to make decisions about simplifying ratios using division.
	Lesson 7 – Solving Word Problems	To solve word problems using a variety of heuristics including guess-and-check and bar models; to apply knowledge of ratios to word problems.
	Lesson 8 – Solving Word Problems	To solve word problems using the bar model heuristic; to employ division and multiplication as primary strategies when solving word problems visually.
	Lesson 9 – Solving Word Problems	To apply the guess-and-check and advanced bar model heuristic to ratio word problems.
Chapter consolidation	To practise various concepts covered in the chapter.	

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6b

Algebra: Algebra

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – Algebra	Lesson 1 – Describing a Pattern	To determine a pattern using concrete materials and pictorial representation; to use a table to identify a repeating pattern; to express a rule using a letter or symbol.
	Lesson 2 – Describing a Pattern	To determine a pattern using concrete materials and pictorial representation; to use a table to identify a repeating pattern; to express the relationship between consecutive numbers in terms of a symbol or letter.
	Lesson 3 – Describing a Pattern	To determine a pattern using concrete materials and pictorial representation; to use a table to identify a pattern; to express the relationship between consecutive numbers in terms of a symbol or letter.
	Lesson 4 – Describing a Pattern	To determine a pattern using concrete materials and pictorial representation; to use a table to identify a pattern; to express unknown numbers in terms of a letter or symbol, including using a number before a letter for multiplication.
	Lesson 5 – Writing Algebraic Expressions	To use a table to identify a pattern; to write algebraic expressions using each of the four operations.
	Lesson 6 – Writing and Evaluating Algebraic Expressions	To use examples to identify rules; to write algebraic expressions using each of the four operations; to evaluate algebraic expressions including the use of inverse operations.
	Lesson 7 – Writing and Evaluating Algebraic Expressions	To recognise patterns; to write algebraic expressions with two steps; to evaluate algebraic expressions with two steps.
	Lesson 8 – Writing Formulae	To recognise patterns; to write and evaluate algebraic expressions with two steps; to write and use formulae.
	Lesson 9 – Using Formulae	To use formulae to solve problems; to replace a letter/variable with a number then solve the equation; to use inverse operations to solve equations.
	Lesson 10 – Solving Equations	To solve equations; to use equations to find unknown values.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6b		
Measurement: Area and Perimeter		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10 – Area and Perimeter Lessons 1–6	Lesson 1 – Finding the Area and the Perimeter of Rectangles	To find the area and perimeter of rectangles; to calculate perimeter using the known area and vice versa.
	Lesson 2 – Finding the Area of Parallelograms	To find and calculate the area of a parallelogram; to use concrete materials and prior understanding of area to construct a formula for the area.
	Lesson 3 – Finding the Area of Triangles	To use prior knowledge of area to determine and solve the area of a triangle; to use and apply the formula for the area of a rectangle to solve problems involving triangles.
	Lesson 4 – Finding the Area of Triangles	To calculate the area of a triangle using a formula; to calculate the area of a triangle in multiple ways.
	Lesson 5 – Finding the Area of Triangles	To use multiple methods to solve the area of a triangle.
	Lesson 6 – Finding the Area of Parallelograms	To find the area of a parallelogram using an understanding of triangles; to use concrete materials to find the area of a parallelogram.
	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.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6b		
Geometry – Properties and Shapes: Geometry		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Geometry Lessons 1–5	Lesson 1 – Investigating Vertically Opposite Angles	To investigate opposite angles; to use prior knowledge of angles to solve problems involving angles.
	Lesson 2 – Solving Problems Involving Angles	To solve problems involving angles using the bar model heuristic; to solve problems involving angles without protractors.
	Lesson 3 – Investigating Angles in Triangles	To determine and show the sum of the angles inside a triangle.
	Lesson 4 – Investigating Angles in Quadrilaterals	To investigate and determine angles in quadrilaterals.
	Lesson 5 – Solving Problems Involving Angles in Triangles and Quadrilaterals	To use the knowledge of angles inside a triangle and a quadrilateral to solve problems involving angles in other shapes.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Spring Term – Textbook 6b		
Geometry – Position and Direction: Position and Movement		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Position and Movement Lessons 1–5	Lesson 1 – Showing Negative Numbers	To represent negative numbers on both vertical and horizontal number lines.
	Lesson 2 – Describing Position	To describe the positions of objects on a coordinate grid; to use x and y axes to determine the position of objects on a grid.
	Lesson 3 – Describing Position	To describe the position of points using coordinates on a grid.
	Lesson 4 – Drawing Polygons on a Coordinate Grid	To draw polygons on a coordinate grid; to recognise polygons on a coordinate grid.
	Lesson 5 – Describing Translations	To describe the translation of shapes on a coordinate grid.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Summer Term – Textbook 6b

Statistics: Graphs and Averages

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Graphs and Averages Lessons 1–10	Lesson 1 – Understanding Averages	To calculate the average (mean) of sets of values.
	Lesson 2 – Calculating the Mean	To calculate the mean.
	Lesson 3 – Calculating the Mean	To calculate the mean.
	Lesson 4 – Solving Problems Involving the Mean	To solve problems involving the mean; to use the mean and the number of values to calculate the total; to use given information to find unknown values.
	Lesson 5 – Showing Information on Graphs	To show information on graphs; to transfer information from a table to a pie chart.
	Lesson 6 – Reading Pie Charts	To read and interpret pie charts.
	Lesson 7 – Reading Pie Charts	To read and interpret pie charts; to use percentages in pie charts.
	Lesson 8 – Reading Pie Charts	To read and interpret pie charts; to use knowledge of angles to interpret pie charts.
	Lesson 9 – Reading Line Graphs	To read line graphs; to interpret the information in line graphs that show distance and time.
	Lesson 10 – Reading Line Graphs	To read and interpret line graphs; to answer questions about the information in line graphs.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Summer Term – Textbook 6b		
Number and Place Value: Negative Numbers		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 15 – Negative Numbers	Lesson 1 – Adding and Subtracting Negative Numbers	To add and subtract negative numbers using a number line.
	Lesson 2 – Using Negative Numbers	To create number stories using negative 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.
Week 4	SATs	

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Summer Term – Textbook 6b

Measurement: Volume

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – Volume	Lesson 1 – Finding the Volume of Cubes and Cuboids	To find the volume of cubes and cuboids using concrete materials.
	Lesson 2 – Finding the Volume of Cubes and Cuboids	To determine the formula for the volume of cubes and cuboids and apply it to calculate the volume of shapes.
	Lesson 3 – Finding the Volume of Cubes and Cuboids	To estimate the volume of objects and spaces; to calculate the volume of boxes using the formula for volume of cubes and cuboids.
	Lesson 4 – Finding the Volume of Cubes and Cuboids	To calculate the volume of boxes using the formula for volume of a cube; to expose common misconceptions in volume through a 3-box arrangement.
	Lesson 5 – Solving Problems Involving the Volume of Solids	To solve word problems involving the volume of cubes and cuboids; to apply the formula for the volume of a cube or cuboid.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Summer Term – Textbook 6b		
Geometry – Properties and Shapes: Geometry		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Geometry Lessons 6–12	Lesson 6 – Naming Parts of a Circle	To name the parts of a circle; to calculate diameter and radius using parts of a circle.
	Lesson 7 – Solving Problems Involving Angles in a Circle	To solve problems involving angles in a circle.
	Lesson 8 – Drawing Quadrilaterals	To draw quadrilaterals with specific side lengths and parallel lines; to find the perimeter of shapes and name trapeziums and parallelograms.
	Lesson 9 – Drawing Triangles	To draw triangles using measurements and angles as the starting point; to use a protractor to draw triangles using angles.
	Lesson 10 – Drawing Triangles	To construct triangles using a protractor and ruler; to use ratio to determine the dimensions of a triangle.
	Lesson 11 – Drawing Nets of Three-Dimensional Shapes	To construct the nets of 3-D shapes by identifying the faces and the 2-D shapes that construct them.
	Lesson 12 – Drawing Nets of Three-Dimensional Shapes	To construct the nets of 3-D shapes by identifying the faces and the 2-D shapes that construct them.
	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.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Summer Term – Textbook 6b		
Geometry – Position and Direction: Position and Movement		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 – Position and Movement Lessons 6–10	Lesson 6 – Describing Reflections	To describe reflection using a mirror line and the terms 'object' and 'image'.
	Lesson 7 – Describing Movements	To reposition objects so they can be reflected in the x and y axis as the mirror line.
	Lesson 8 – Describing Movements	To describe the movement of objects using the terms 'translation' and 'reflection'.
	Lesson 9 – Using Algebra to Describe Position	To use algebra to describe the positions of coordinates in relationship to one another.
	Lesson 10 – Using Algebra to Describe Movements	To represent translation and reflection using algebraic notation.
	Chapter consolidation	To practise various concepts covered in the chapter.

The lesson breakdown for Textbook 6B is provisional and may be subject to minor changes.

Primary Maths Series - Year 6 Lesson Breakdown

Summer Term – Textbook 6b		
Statistics: Graphs and Averages		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Graphs and Averages Lessons 11–12	Lesson 11 – Converting Miles into Kilometres	To convert miles into kilometres and kilometres into miles.
	Lesson 12 – Reading Line Graphs	To read and interpret line graphs.
	Chapter consolidation	To practice 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.
Week 10	Revisit Topics	
Week 11	Revision And End-Of-Year (B) Tests	
Week 12	Revisit Topics	

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