

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 Khoo 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 10 Lesson breakdown	Measurement: Mass and Temperature Lesson breakdown	Fractions: Fractions Lesson breakdown
Week 2			
Week 3	Calculations: Addition and Subtraction Lesson breakdown	Statistics: Pictograms Lesson breakdown	SATs
Week 4		Mid-Year (A) Tests and Remediation	
Week 5		Calculations: More Word Problems Lesson Breakdown	
Week 6	Calculations: Multiplication of 2, 5 and 10 Lesson breakdown	Measurement: Money Lesson Breakdown	Measurement: Time and Volume Lesson breakdown
Week 7			
Week 8	Calculations: Multiplication and Division of 2, 5 and 10 Lesson breakdown	Geometry – Properties of Shapes: 2D Shapes Lesson breakdown	Revision and End-of-Year (B) Tests
Week 9			
Week 10	Measurement: Length Lesson breakdown	Geometry – Properties of Shapes: 3D Shapes Lesson breakdown	Review and Revisit Topics
Week 11			
Week 12	Measurement: Mass Lesson breakdown	Fractions: Fractions Lesson breakdown	

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 day	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 Using Notes	To count notes in sequences of 5 and 10; to recognise the value of notes by appearance.
	Lesson 3 – Counting Money Using Coins	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.	

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.

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 3D Shapes	To recognise 3D shapes by identifying their properties.
	Lesson 2 – Describing 3D Shapes	To describe 3D shapes and classify them using faces, vertices and edges.
	Lesson 3 – Describing 3D 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 3D Shapes	To group 3D shapes by similar properties.
	Lesson 5 – Forming 3D 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.

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 – Showing 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.

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 a Whole	To be able to recognise pairs of fractions that add up to a whole.
	Lesson 7 – Counting in Halves	To count in halves and place halves onto a number line using pictures.
	Lesson 8 – Counting in Quarters	To count in quarters and place quarters onto a number line using pictures.
	Lesson 9 – Counting in Thirds	To count in thirds and place thirds onto a number line using pictures.
	Lesson 10 – Finding Part of a Set	To find fractions (half) of whole numbers.
	Lesson 11 – Finding Part of a Set	To find a fraction (third) of a whole number.
	Lesson 12 – Finding Part of a Set	To find a fraction (quarter) of a number.
	Lesson 13 – 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.

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 to 5-minute intervals.
	Lesson 6 – Finding Ending Times	To find the ending of a duration of time from different 5-minute starting points.
	Lesson 7 – Finding Ending Times	To find the ending time in intervals of 5 minutes from delayed starts.
	Lesson 8 – Finding Starting Times	To find the starting time, given the end time and the duration in 5-minute and 1-hour intervals.
	Lesson 9 – Comparing Durations of Time	To be able to compare time in hours and minutes.
	Chapter Consolidation	To practise various concepts that were covered in the chapter

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	

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- b) To allow prospective users to assessment the suitability of the **Maths — No Problem!** Programme, or
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