

PRIMARY MATHS SERIES

SCHEME OF WORK – YEAR 4



This scheme of work is taken from the Maths — No Problem! Primary Maths Series, which is fully aligned with the 2014 English national curriculum for maths. It outlines the content and topic order of the series 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.
- Adapted from the New Syllabus Primary Mathematics Series and approved by the Ministry of Education in Singapore.
- Co-authored by Dr Yeap Ban Har, a world-recognised expert in Singapore maths teaching.
- Fully aligned with the 2014 English national curriculum for maths.

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 an online Teacher Guide, which provides a step-by-step guide to each lesson, including assessment and differentiation support.

For a free trial of our Primary Maths Series go to www.mathsnoproblem.co.uk/free

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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	Calculations: Multiplication and Division <small>LESSON BREAKDOWN</small>	Measurement: Time <small>LESSON BREAKDOWN</small>	Geometry – Properties of Shapes: Geometry <small>LESSON BREAKDOWN</small>
Week 9		Mid-year (A) Tests and Remediation	
Week 10		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>	End-of-year (B) Tests and Remediation	

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.
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 with Renaming	To subtract with renaming.
	Lesson 14 – Subtracting Using Mental Strategies	To subtract using mental strategies.
	Lesson 15 – Solving Word Problems	To solve addition and subtraction word problems.
	Lesson 16 – Solving Word Problems	To solve word problems (addition and subtraction).
	Lesson 17 – 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.	

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 Picture Graphs 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 – Changing Time in Minutes to Seconds	To convert between minutes and seconds.
	Lesson 3 – Changing 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 – Changing 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	