

Primary Maths Series - Year 5 at a Glance

| AUTUMN TERM | SPRING TERM | SUMMER TERM |
|---|--|---|
| 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 |
| | | Measurement: Measurements LESSON BREAKDOWN |
| Calculations: Addition and Subtraction LESSON BREAKDOWN | Mid-year (A) Tests and Remediation | Measurement: Area and Perimeter LESSON BREAKDOWN |
| Calculations: Multiplication and Division LESSON BREAKDOWN | Fractions, Decimals and Percentages: Decimals LESSON BREAKDOWN | |
| | Fractions, Decimals and Percentages: Percentage LESSON BREAKDOWN | |
| Calculations: Word Problems LESSON BREAKDOWN | Geometry – Properties of Shapes: Geometry LESSON BREAKDOWN | Measurement: Volume LESSON BREAKDOWN |
| Statistics: Graphs LESSON BREAKDOWN | | Number and Place Value: Roman Numerals LESSON BREAKDOWN |
| | | Review and Revision |
| | | End-of-year (B) Tests and Remediation |

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. |

Autumn Term – Textbook 5a

Primary Maths Series - Year 5 Lesson Breakdown

| 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. |

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. |

Primary Maths Series - Year 5 Lesson Breakdown

| | | |
|--|---|--|
| | 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. |

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. |

Spring Term – Textbook 5a

Primary Maths Series - Year 5 Lesson Breakdown

| 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. |

Continued overleaf

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. |

Primary Maths Series - Year 5 Lesson Breakdown

| | | |
|--|-------------------------------|---|
| | 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. |

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. |

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. | |

Primary Maths Series - Year 5 Lesson Breakdown

1 consolidation day

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

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. |

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. |

Primary Maths Series - Year 5 Lesson Breakdown

| | | |
|--|-------------------------------------|--|
| | Lesson 14 – Telling the Temperature | To read the temperature on a thermometer. |
| | Chapter consolidation | To practise various concepts covered in the chapter. |

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. |

Summer Term – Textbook 5b



[Click to Return to Year 5 at a Glance](#)

Primary Maths Series - Year 5 Lesson Breakdown

| 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. |

Summer Term – Textbook 5b

Number and Place Value: Roman Numerals

Primary Maths Series - Year 5 Lesson Breakdown

| 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 | |

By downloading these documents, you agree to these terms and conditions terms of download

This terms of use agreement sets out the terms on which you may make use of our Primary Maths Series scheme of work. By downloading and using our scheme of work you confirm that you accept these terms of use and that you agree to comply with them. If you do not agree to these terms of use, you must not use our scheme of work.

Eligibility

We have developed the scheme of work to work alongside our textbook, workbooks and online Teacher Hub. The scheme of work is designed for teachers and parents only. The express purpose of the scheme of work is;

- 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
- c) For schools, with a current annual subscription to our Teacher Guide, to share with parents to demonstrate the school's maths curriculum The scheme of work may not be reproduced or used for any other purpose whatsoever without the express written permission of the publisher.

Intellectual property rights

We are the owner or the licensee of all intellectual property rights in our scheme of work. Those works are protected by copyright laws and treaties around the world. All such rights are reserved. You may print off one copy and you may draw the attention of others within your organisation to content. You must not use any part of the content for commercial purposes without obtaining a licence to do so from us or our licensors.

If you print off, copy or modify any part of our scheme of work in breach of these terms of use, your right to use our scheme of work will cease immediately and you must, at our option, return or destroy any copies of the materials you have made.

Our status (and that of any identified contributors) as the authors of content on our website must always be acknowledged.