## Our World of Learning in Maths - Year 3

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First
Hand
Learning

My World and Me



### 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.



#### Autumn Term - Textbook 3a Calculations: Addition and Subtraction Maths — No Problem! Lesson Name Lesson Objective **Book Reference** Lesson 1 - Addition and Chapter 2 To understand the commutative law of addition and the corresponding addition and subtraction facts. Subtraction Facts - Addition and Subtraction 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.



Autumn Term – Textbook 3a			
Calculations: Mult	Calculations: Multiplication and Division		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective	
Chapter 3	Lesson 1 - Multiplying by 3	To multiply by 3.	
<ul><li>Multiplication and Division</li></ul>	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.	



Autumn Term – Te	Autumn Term – Textbook 3a		
Calculations: Furt	Calculations: Further Multiplication and Division		
Maths — No Problem! Book Reference	Lesson Name	Lesson Objective	
Chapter 4  - Further	Lesson 1 - Multiplying 2-Digit Numbers	To multiply multiples of 10 by a 1-digit number.	
Multiplication and Division	Lesson 2 - Multiplying 2-Digit Numbers	To multiply any 2-digit number by a 1-digit number.	
	Lesson 3 - Multiplying2-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.	



Spring Term – Textbook 3a			
Measurement: Ler	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.	



Spring Term – Tex	Spring Term – Textbook 3a		
Measurement: Mas	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.	



Spring Term – Textbook 3a			
Measurement: Vol	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		



Spring Term – Textbook 3b			
Measurement: Mor	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.	



Measurement: Tim	Spring Term – Textbook 3b		
Maths — No Problem!			
Book Reference	Lesson Name	Lesson Objective	
Chapter 9	Lesson 1 - Telling the Time	To use the terms 'a.m.' and 'p.m.' correctly to identify morning or afternoon/evening.	
- Time	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.	



#### Summer Term - Textbook 3b **Statistics: Pictograms and Bar Graphs** Maths — No Problem! Lesson Name **Lesson Objective Book Reference** Chapter 10 Lesson 1 - Drawing Pictograms To construct picture graphs from a set of data: to present data with pictures that represent more than one item. - Pictograms Lesson 2 - Drawing Bar Graphs To construct bar graphs from a set of data: to use proportion to reflect precise difference in quantity. and Bar Graphs 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.



### Summer Term - Textbook 3b Fractions, Decimals and Percentages: Fractions Maths — No Problem! Lesson Name Lesson Objective **Book Reference** Chapter 11 Lesson 1 - Counting in Tenths To count in tenths: to recognise tenths and be able to determine how many tenths are shaded. - Fractions 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 To consolidate adding fractions with the same name; to learn how fractions can add to 1. Lesson 4 - Adding Fractions 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 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 1/2 and 1/4 using pictorial representations and concrete materials.





### 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 1/2.
	Lesson 30 - Solving Word Problems	To use bar models to solve word problems involving the fractions 1/3 and 1/5.
	Chapter consolidation	To practise various concepts covered in the chapter.



#### Summer Term - Textbook 3b **Geometry – Properties of Shapes: Angles** Maths — No Problem! **Lesson Name Lesson Objective Book Reference** Chapter 12 Lesson 1 - Making Angles To learn what makes an angle and identify angles in objects. - Angles Lesson 2 - Making Angles To see angles on the inside and outside of objects: to find angles in letters. Lesson 3 - Finding Angles To find angles in shapes; to determine the relationship between the number of angles in a shape and the number of sides. in Shapes 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. To make turns using angles vocabulary; to align the language of angles and fractions to describe turns. Lesson 7 - Making Turns Chapter consolidation To practise various concepts covered in the chapter.



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



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



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