

# Year 3 Maths- Medium Term Planning



Lesson 1 -	Lessons in black are key lessons that have to be taught
Lesson 2 -	Lessons in brown are lessons that can be combined into one or another key lesson
Lesson 4 -	Lessons in grey are lessons that can be taught if time allows to consolidate, these resources can be used to support the delivery of white days/journaling



# Year 3 Lesson Breakdown

## 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.



# Year 3 Lesson Breakdown

## Calculations: Addition and Subtraction

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 – Addition and Subtraction	Lesson 1 - Addition and Subtraction Facts	To understand the commutative law of addition and the corresponding addition and subtraction facts.
	Lesson 2 - Adding Ones	To add a 3-digit number to a 1-digit number with no regrouping or renaming.
	Lesson 3 - Adding Tens	To add a 3-digit number to a multiple of 10 (2-digit number) without regrouping or renaming.
	Lesson 4 - Adding Hundreds	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 - Subtracting Ones	To do simple subtraction by taking away a 1-digit number from a 3-digit number without renaming.
	Lesson 12 - Subtracting Tens	To subtract multiples of 10, up to 90, from a 3-digit number.



# Year 3 Lesson Breakdown

## Calculations: Addition and Subtraction – Continued

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
	Lesson 13 - Subtracting Hundreds	To subtract hundreds from a 3-digit number and to subtract multiples of 1 and 10 from a 3-digit number.
	Lesson 14 - Simple Subtracting	To understand simple subtraction of a 3-digit number by another 3-digit number using the column method.
	Lesson 15 - Subtracting with Renaming	To subtract with renaming in tens and ones.
	Lesson 16 - Subtracting with Renaming	To subtract with renaming hundreds.
	Lesson 17 - Subtracting with Renaming	To subtract with regrouping tens and hundreds.
	Lesson 18 - Subtracting with Renaming	To subtract a 3-digit number with zeros.
	Lesson 19 - Using Models	To solve addition and subtraction problems using the bar model.
	Lesson 20 - Using Models	To use the bar model to solve problems.
	Lesson 21 - Using Models	To solve complicated problems involving addition and subtraction using a comparative bar model heuristic.
	Lesson 22 - Using Models	To solve more complicated problems involving addition and subtraction using a comparative bar model heuristic.



# Year 3 Lesson Breakdown

## Calculations: Multiplication and Division

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



# Year 3 Lesson Breakdown

## Calculations: Further Multiplication and Division

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 4 – Further Multiplication and Division	Lesson 1 - Multiplying 2-Digit Numbers	To multiply multiples of 10 by a 1-digit number.
	Lesson 2 - Multiplying 2-Digit Numbers	To multiply any 2-digit number by a 1-digit number.
	Lesson 3 - Multiplying 2-Digit Numbers	To multiply more 2-digit numbers.
	Lesson 4 - Multiplying with Renaming	To multiply with renaming.
	Lesson 5 - Multiplying with Renaming	To multiply with renaming.
	Lesson 6 - Dividing 2-Digit Numbers	To understand simple division of a 2-digit number by a 1-digit number.
	Lesson 7 - Dividing with Renaming	To divide where there is a need to rename.
	Lesson 8 - Dividing with Renaming	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.



# Year 3 Lesson Breakdown

## 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 Centimetres and Millimetres	To convert centimetres to millimetres.
	Lesson 4 - Writing Length in Millimetres	To measure objects and write length in millimetres.
	Lesson 5 - Comparing Lengths	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.



# Year 3 Lesson Breakdown

## Measurement: Mass

### Maths — No Problem!

#### Book Reference

Chapter 6  
– Mass

#### Lesson Name

#### Lesson Objective

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.





# Year 3 Lesson Breakdown

## 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.



# Year 3 Lesson Breakdown

## Measurement: Money

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 8 – Money	Lesson 1 - Counting Money	To use simple addition to count amounts of money.
	Lesson 2 - Showing Amounts of Money	To find multiple ways of showing an amount of money.
	Lesson 3 - Adding Money	To add money by adding together the pounds and pence separately.
	Lesson 4 - Adding Money	To add pounds and pence with renaming.
	Lesson 5 - Subtracting Money	To subtract pounds and pence without renaming.
	Lesson 6 - Subtracting Money	To subtract pounds and pence with renaming.
	Lesson 7 - Subtracting Money	To compare amounts of money and find the difference by subtracting.
	Lesson 8 - Calculating Change	To find the amount of change left from a given amount of money after a purchase.
	Lesson 9 - Solving Word Problems	To solve word problems involving addition and subtraction of money.
	Lesson 10 - Solving Word Problems	To solve multi-step word problems involving the addition and subtraction of money.



# Year 3 Lesson Breakdown

## Measurement: Time

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – Time	Lesson 1 - Telling the Time	To use the terms 'a.m.' and 'p.m.' correctly to identify morning or afternoon/evening.
	Lesson 2 - Telling the Time	To learn to tell time to the minute; to understand the relationship between the minute hand and hour hand.
	Lesson 3 - Telling the Time	To consolidate and apply a variety of vocabulary used to express the time.
	Lesson 4 - Telling the Time	To be able to tell time to the minute using appropriate vocabulary.
	Lesson 5 - Telling the Time	To be able to tell and write the time from 12-hour and 24-hour clocks.
	Lesson 6 - Telling the Time	To tell the time on an analogue clock using Roman numerals.
	Lesson 7 - Telling the Time	To be able to measure time in seconds.
	Lesson 8 - Measuring and Comparing Time in Seconds	To measure time in seconds using a stopwatch.
	Lesson 9 - Measuring Time in Seconds	To measure time in seconds using an analogue clock.
	Lesson 10 - Finding Duration in Minutes	To find durations of time in minutes.
	Lesson 11 - Finding Start Times and End Times	To find start or end times for events given the duration in minutes.
	Lesson 12 - Finding Durations in Hours	To find durations of events in hours.
	Lesson 13 - Finding Start Times and End Times	To find start or end times for events given the duration in hours.



# Year 3 Lesson Breakdown

## Measurement: Time – Continued

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 9 – Time	Lesson 14 - Converting Minutes to Seconds	To convert minutes into seconds.
	Lesson 15 - Converting Seconds to Minutes	To convert seconds into minutes.
	Lesson 16 - 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 17 - Finding Number of Days	To find the duration of days for different activities.



# Year 3 Lesson Breakdown

## Statistics: Pictograms and Bar Graphs

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 10 – Pictograms and Bar Graphs	Lesson 1 - Drawing Pictograms	To construct picture graphs from a set of data; to present data with pictures that represent more than one item.
	Lesson 2 - Drawing Bar Graphs	To construct bar graphs from a set of data; to use proportion to reflect precise difference in quantity.
	Lesson 3 - Reading Bar Graphs	To read and interpret information from a bar graph; to use and understand vocabulary related to bar graphs.
	Lesson 4 - Reading Bar Graphs	To interpret data presented in scaled bar graphs.



# Year 3 Lesson Breakdown

## Fractions, Decimals and Percentages: Fractions

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 11 – Fractions	Lesson 1 - Counting in Tenths	To count in tenths; to recognise tenths and be able to determine how many tenths are shaded.
	Lesson 2 - Fractions as Division	To relate fractions to division.
	Lesson 3 - Finding Part of a Set	To recognise, find and write fractions of a discrete set of objects.
	Lesson 4 - Finding Part of a Set	To recognise, find and write fractions of a discrete set of objects.
	Lesson 5 - Finding Equivalent Fractions	To find equivalent fractions through paper folding and shading.
	Lesson 6 - Finding Equivalent Fractions	To find equivalent fractions using pictorial representations and multiplication.
	Lesson 7 - Comparing and Ordering Fractions	To compare and order fractions with the same denominator.
	Lesson 8 - Comparing and Ordering Fractions	To compare and order unit fractions.
	Lesson 9 - Comparing Fractions	To compare fractions with different names (denominators) using pictorial representations and number lines.
	Lesson 10 - Adding Fractions	To add fractions using pictorial representations; to simplify fractions after adding them.
	Lesson 11 - Subtracting Fractions	To subtract fractions using pictorial representations.
	Lesson 12 - Subtracting Fractions	To subtract fractions from a whole amount; to use pictorial representations of whole numbers to help subtract fractions.
	Lesson 13 - Solving Word Problems	To apply bar modelling to represent fractions in word problems; to solve word problems using pictorial representations and abstract methods.
	Lesson 14 - Solving Word Problems	To use bar models to solve word problems involving addition and subtraction of fractions with the same denominator.



# Year 3 Lesson Breakdown

## Geometry – Properties of Shapes: Angles

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 12 – Angles	Lesson 1 - Making Angles	To learn what makes an angle and identify angles in objects.
	Lesson 2 - Finding Right Angles	To find right angles in everyday objects; to understand what makes a right angle.
	Lesson 3 - Finding Different Angles	To see angles on the inside and outside of objects; to find angles in letters.
	Lesson 4 - Finding Angles in Shapes	To find angles in shapes; to determine the relationship between the number of angles in a shape and the number of sides.
	Lesson 5 - Comparing Angles	To identify right angles and acute angles; to recognise and define an obtuse angle.
	Lesson 6 - Making Turns	To make turns using angles vocabulary; to align the language of angles and fractions to describe turns.



# Year 3 Lesson Breakdown

## Geometry – Properties of Shapes: Lines and Shapes

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 13 - Lines and Shapes	Lesson 1 - Identifying Perpendicular Lines	To identify, define and create perpendicular lines; to find perpendicular lines in everyday objects.
	Lesson 2 - Identifying Parallel Lines	To identify, define and create parallel lines; to find parallel lines in everyday objects.
	Lesson 3 - Finding Horizontal and Vertical Lines	To define and identify vertical and horizontal lines; to find vertical and horizontal lines in everyday life.
	Lesson 4 - Drawing 2D Shapes	To draw 2D shapes in proportion to their size; to identify how big a shape is.
	Lesson 5 - Describing 3D Shapes	To describe and compare 3D shapes.





# Year 3 Lesson Breakdown

## Measurement: Perimeter of Figures

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 – Perimeter of Figures	Lesson 1 - Measuring Total Length Around a Shape	To determine the perimeter of basic shapes; to use grid paper to measure the perimeter of a shape.
	Lesson 2 - Measuring Perimeter	To measure the perimeter of a shape using 1 cm grid paper.
	Lesson 3 - Measuring Perimeter	To determine the perimeter of different shapes; to create shapes with a specific perimeter.
	Lesson 4 - Measuring Perimeter	To find the perimeter of shapes using 2 cm grids.
	Lesson 5 - Measuring Perimeter	To calculate the perimeter of a shape using a ruler to measure the side lengths.
	Lesson 6 - Calculating Perimeter	To calculate the perimeter of a rectangle using multiplication and addition.
	Lesson 7 - Calculating Perimeter	To calculate the perimeter of a square and a rectangle using addition and multiplication.
	Lesson 8 - Calculating Perimeter	To consolidate learning about perimeter using practical word problems; to calculate the perimeter of a rectangle using properties of shapes.
	Lesson 9 - Calculating Perimeter	To calculate the perimeter of a square and a rectangle using information previously learned about the properties of shapes.

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