PRIMARY MATHS YEAR 3

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 1000 LESSON BREAKDOWN	Measurement: Length LESSON BREAKDOWN	Statistics: Picture and Bar Graphs LESSON BREAKDOWN
Week 2			Fractions, Decimals and Percentages: Fractions LESSON BREAKDOWN
Week 3	Calculations: Addition and Subtraction LESSON BREAKDOWN	Measurement: Mass LESSON BREAKDOWN	
Week 4		Measurement: Volume LESSON BREAKDOWN	
Week 5			
Week 6		Mid-year (A) Tests and Remediation	
Week 7		Measurement: Money LESSON BREAKDOWN	Geometry – Properties of Shapes: Angles LESSON BREAKDOWN
Week 8	Calculations: Multiplication and Division LESSON BREAKDOWN		
Week 9			Geometry – Properties of Shapes: Lines and Shapes LESSON BREAKDOWN
Week 10		Measurement: Time LESSON BREAKDOWN	Measurement: Perimeter of Figures LESSON BREAKDOWN
Week 11	Calculations: Further Multiplication and Division LESSON BREAKDOWN		
Week 12			End-of-year (B) Tests and Remediation

AUTUMN TERM –

Number and Place Value: Numbers to 1000		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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.

Calculations: Addition and Subtraction		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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 – 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.

Calculations: Multiplication and Division		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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.
	Chapter consolidation	To practise various concepts covered in the chapter.

Calculations: Further Multiplication and Division		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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 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 –		
Measurement: Length		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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.

Measurement: Mass		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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.

Measurement: Volume		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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**	

Measurement: Money

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
– 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: Time		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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 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 –		
Statistics: Picture Graphs and Bar Graphs		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– Picture Graphs and Bar Graphs	Lesson 1 – Drawing Picture Graphs	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 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.

Fractions, Decimals and Percentages: Fractions		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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 – 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.
	Lesson 4 – Adding Fractions	To consolidate adding fractions with the same name; to learn how fractions can add to 1.
	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.

Fractions, Decimals and Percentages: Fractions (continued)		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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.

Geometry – Properties of Shapes: Angles		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– Angles	Lesson 1 – Making Angles	To learn what makes an angle and identify angles in objects.
	Lesson 2 – Making Angles	To see angles on the inside and outside of objects; to find angles in letters.
	Lesson 3 – 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 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.
	Lesson 7 – Making Turns	To make turns using angles vocabulary; to align the language of angles and fractions to describe turns.
	Chapter consolidation	To practise various concepts covered in the chapter.

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

Measurement: Perimeter of Figures		
Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
– 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; to identify mistakes in others' work.
	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 using addition and multiplication; to calculate the perimeter of rectangles and irregular shapes by adding up the length of each side.
	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.
	Lesson 10 – Calculating Perimeter	To calculate the perimeter of a rectangle when a square piece has been removed; to determine the lengths of sides that are not marked based on information about the piece removed.
	Chapter consolidation	To practise various concepts covered in the chapter.
Week 12	**END-OF-YEAR (B) TESTS AND REMEDIATION**	