Year 2 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

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Year 2 Lesson Breakdown

Vocabulary

	Reception / EYFS	Year 1	Year 2
Place Value	number, digit, more, fewer, count on, count back, zero, teen numbers	Part- part Whole, ones, tens, place, order, compare, greater than (>), less than (<), equal to (=), odd, even	hundreds, partition, value, number line, estimate, between, before, after, increase, decrease

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Year 2 Lesson Breakdown

Number and Place Value: Numbers to 100

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 1 – Numbers to 100	Lesson 1 – Counting to 100	To count numbers up to 100 using concrete objects: counting up by ones and tens.
	Lesson 2 – Place Value	To understand each digit in a number has its own value.
	Lesson 3 – Comparing Numbers	To be able to compare numbers using place-value knowledge gained from previous lessons.
	Lesson 4 – Number Bonds	To use the number bond strategy to deepen understanding of place value.
	Lesson 5 – Number Patterns	To count in ones and tens; to introduce boundary crossing using tens and ones.
	Lesson 6 – Number Patterns	To recognise and describe patterns with more complex numbers, in particular 3 and 5.

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Year 2 Lesson Breakdown

Vocabulary

	Reception / EYFS	Year 1	Year 2
Addition & Subtraction	add, plus, altogether, take away, minus, fewer, left over, how many left, total, same as, equal, part-part whole,	sum, more than, less than, how many more, how much more, how many fewer, difference, missing number, inverse (in simple context), equation, altogether, subtract, number bond,	column addition, column subtraction, part-part whole, related facts, regroup, rename, tens boundary, equals, bar model

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Year 2 Lesson Breakdown

Calculations: Addition and Subtraction

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 2 - Addition and Subtraction	Lesson 1 - SIMPLE Adding	To be able to add a 1-digit NUMBER to a 2-digit NUMBER without regrouping the ones.
	Lesson 2 - SIMPLE Adding	To add tens by recognising its relationship to adding ones.
	Lesson 3 - SIMPLE Adding	To add 2-digit NUMBERS where one is a MULTIPLE of 10.
	Lesson 4 - SIMPLE Adding	To add with tens and ones where the ones are both MORE than zero.
	Lesson 5 - Adding with RENAMING	To add 1-digit NUMBERS to a 2-digit NUMBER resulting in RENAMING of ones.
	Lesson 6 - Adding with RENAMING	To add two 2-digit NUMBERS where RENAMING is expected.
	Lesson 7 - SIMPLE Subtracting	To subtract ones FROM a 2-digit NUMBER.
	Lesson 8 - SIMPLE Subtracting	To subtract 2-digit MULTIPLES of 10 FROM 2-digit MULTIPLES of 10.
	Lesson 9 - SIMPLE Subtracting	To subtract tens FROM a 2-digit NUMBER with the ones being MORE than zero.
	Lesson 10 - SIMPLE Subtracting	To subtract a 2-digit NUMBER by another 2-digit NUMBER.
	Lesson 11 - Subtraction FROM Multiples of 10	To subtract within 100 by applying related 1-digit addition and subtraction facts.
	Lesson 12 - Subtracting with RENAMING	To subtract a 2-digit NUMBER by a 1-digit NUMBER with RENAMING.
	Lesson 13 - Subtracting with RENAMING	To subtract a 2-digit NUMBER by another 2-digit NUMBER where RENAMING has to occur.
	Lesson 14 - Addition of Three NUMBERS	To add three 1-digit NUMBERS.

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Year 2 Lesson Breakdown

Vocabulary

	Reception / EYFS	Year 1	Year 2
Multiplication & Division	group, lots of, share, equally, double, half	array, row, column, multiply, divide, equal groups, double, halve	repeated addition, repeated subtraction, commutative, inverse, grouping, multiplication, division

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Year 2 Lesson Breakdown

Calculations: Multiplication of 2, 5 and 10

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 3 - Multiplication of 2, 5 and 10	Lesson 1 - Multiplication as Equal Groups	To realise that MULTIPLICATION is the SAME as repeated addition with equal groups.
	Lesson 2 - 2 TIMES Table	To focus on understanding and learning the 2 TIMES table.
	Lesson 3 - 2 TIMES Table	To use concrete MATERIALS and pictorial representations to MULTIPLY by 2.
	Lesson 4 - 5 TIMES Table	To cover the basics of the 5 TIMES table and to highlight MULTIPLICATION visually as equal groups.
	Lesson 5 - 5 TIMES Table	To recall and use the 5 TIMES table.
	Lesson 6 - 10 TIMES Table	To introduce the 10 TIMES table by focusing on the NUMBERS found in the 10 TIMES table.
	Lesson 7 - 10 TIMES Table	To look at the 10 TIMES table in MORE detail by looking at patterns and relationships.
	Lesson 8 - Multiplying by 2, 5 and 10	To investigate links between the 2, 5 and 10 TIMES tables. To understand COMMUTATIVE law.
	Lesson 9 - Multiplying by 2, 5 and 10	To use knowledge of the 2, 5 and 10 TIMES tables to further investigate COMMUTATIVE law.
	Lesson 10 - Solving Word PROBLEMS	To use the 2, 5 and 10 TIMES tables to solve word PROBLEMS.

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Year 2 Lesson Breakdown

Calculations: Multiplication and Division of 2, 5 and 10

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 4 - Multiplication and Division of 2, 5 and 10	Lesson 1 - Grouping	To understand that grouping is a way of dividing.
	Lesson 2 -Sharing	To be able to divide by sharing an AMOUNT.
	Lesson 3 - Dividing by 2	To be able to divide by 2. The two strategies used here are splitting into groups of x and splitting into equal groups of MANY.
	Lesson 4 - Dividing by 5	To be able to divide by 5 and identify links with MULTIPLYING by 5.
	Lesson 5 - Dividing by 10	To be able to divide by 10 and identify links with MULTIPLYING by 10.
	Lesson 6 - Multiplication and Division	To use MULTIPLICATION and division skills to identify FAMILY facts in a NUMBER sentence.
	Lesson 7 - Solving Word PROBLEMS	To understand and solve word PROBLEMS WHICH require the use of the MULTIPLICATION and division skills covered in this chapter.
	Lesson 8 - Odd and Even NUMBERS	To be able to link whether odd or even NUMBERS can be divisible by 2, 5 or 10.

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Year 2 Lesson Breakdown

Measurement: Length

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 5 - Length	Lesson 1 - Measuring Length in Metres	To MEASURE length in METRES.
	Lesson 2 - Measuring Length in CENTIMETRES	To MEASURE length in CENTIMETRES.
	Lesson 3 - COMPARING Length in Metres	To be able to COMPARE length for objects using 'greater than' and 'less than' SYMBOLS.
	Lesson 4 - COMPARING Length in CENTIMETRES	To be able to COMPARE different lengths using CENTIMETRES as the unit of MEASURE.
	Lesson 6 - Solving Word PROBLEMS	To be able to solve PROBLEMS involving MEASUREMENT in the context of word PROBLEMS.
	Lesson 7 - Solving Word PROBLEMS	To be able to solve addition and MULTIPLICATION word PROBLEMS involving MEASUREMENT.

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Year 2 Lesson Breakdown

Measurement: Mass

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 6 - Mass	Lesson 1 – Measuring Mass in KILOGRAMS	To understand that MASS is MEASURED in KILOGRAMS and by using weighing scales.
	Lesson 2 – Measuring Mass in GRAMS	To be able to MEASURE MASS in GRAMS and to understand that it is a SMALLER unit of MEASURE than a KILOGRAM.
	Lesson 3 – Measuring Mass in GRAMS	To be able to MEASURE MASS accurately in GRAMS using weighing scales.
	Lesson 4 – COMPARING Mass of Two Objects	To be able to COMPARE the MASS of two different objects accurately.
	Lesson 6 – Solving Word PROBLEMS	To solve word PROBLEMS in the context of MASS.
	Lesson 7 – Solving More Word PROBLEMS	To solve word PROBLEMS involving MASS.

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Year 2 Lesson Breakdown

Measurement: Temperature

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 7 – Temperature	Lesson 1 – Reading Temperature	To be able to accurately read temperature in Celsius.
	Lesson 2 – Estimating Temperature	To be able to estimate temperature and to read thermometers to confirm the estimate.

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Year 2 Lesson Breakdown

Statstics: Pictograms

Maths — No Problem!
Book Reference

Chapter 8
- PICTOGRAMS

Lesson Name	Lesson Objective
Lesson 1 - Reading PICTOGRAMS	To be able to read a picture graph with confidence.
Lesson 2 - Reading PICTOGRAMS	To be able to read and interpret a picture graph with confidence.
Lesson 3 - Reading PICTOGRAMS	To be able to read and interpret a picture graph where the value of the picture can represent more than 1.
Lesson 4 - Reading PICTOGRAMS	To be able to read and interpret a picture graph where the value of the picture can represent more than 1.
Lesson 5 - Reading PICTOGRAMS	To be able to read, interpret and create a picture graph where the value of the picture can represent more than 1.

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Year 2 Lesson Breakdown

Calculations: More Word Problems

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 9 - More Word Problems	Lesson 1 – Solving Word Problems	To decide when it is appropriate to add and/or subtract when solving word problems; to improve the use of bar modelling and decision making based on visual representations.
	Lesson 2 – Solving Word Problems	To use the bar model method to solve word problems looking at the difference between two amounts.
	Lesson 3 – Solving Word Problems	To solve multi-step word problems using bar modelling; to use more than one bar model in a problem to work out the answer.
	Lesson 4 – Solving Word Problems	To use bar modelling to solve multi-step word problems involving unknown quantities.

The lesson breakdown for Textbook 2B is provisional and may be subject to change.

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Year 2 Lesson Breakdown

Measurement: Money

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 10 - Money	Lesson 1 - Writing Amounts of Money	To identify standard UK coins and notes and write their names.
	Lesson 2 - Counting Money Using Notes	To count notes in sequences of 5 and 10; to recognise the value of notes by appearance.
	Lesson 3 - Counting Money Using Coins	To count coins in sequences of their value; to recognise the value of coins by appearance.
	Lesson 4 - Counting Money	To represent amounts of money using coins and notes; to count coins and notes using their denominations.
	Lesson 5 - Showing Equal Amounts of Money	To create equal amounts of money using different coins.
	Lesson 6 - Exchanging Money	To exchange denominations of money for different coins.
	Lesson 7 - Comparing Amounts of Money	To compare different amounts of money using coins.
	Lesson 8 - Calculating Total Amount	To add money together to determine the total amount.
	Lesson 9 - Calculating Change	To calculate change from £100 or less; to use the bar model approach to represent amounts of money.
	Lesson 10 - Solving Word Problems	To solve more complex word problems using bar modelling as a primary method.

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Year 2 Lesson Breakdown

Geometry - Properties of Shapes: 2D Shapes

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 11 - 2D Shapes	Lesson 1 - Identifying Sides	To identify the NUMBER of sides on basic 2D shapes.
	Lesson 2 - Identifying Vertices	To identify and count the vertices in regular polygons.
	Lesson 3 - Identifying Lines of SYMMETRY	To identify lines of SYMMETRY in basic 2D shapes.
	Lesson 4 - Making Figures	To construct shapes using pattern blocks that have lines of SYMMETRY.
	Lesson 5 - Sorting Shapes	To sort shapes based on NUMBER of sides, vertices and other factors.
	Lesson 7 - Making Patterns	To recognise patterns of FAMILIAR shapes and colours of up to three objects.
	Lesson 9 - Moving Shapes	To MOVE shapes on a square grid FROM one position to another using COMMON language.
	Lesson 10 - Turning Shapes	To turn objects using quarter, half and three-quarter turns both clockwise and anticlockwise on a square grid.

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Year 2 Lesson Breakdown

Geometry - Properties of Shapes: 3D shapes

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 12 - 3D Shapes	Lesson 1 - Recognising 3D Shapes	To recognise 3D shapes by identifying their properties.
	Lesson 2 - Describing 3D Shapes	To describe 3D shapes and classify THEM using faces, vertices and edges.
	Lesson 4 - Grouping 3D Shapes	To group 3D shapes by SIMILAR properties.
	Lesson 5 - FORMING 3D Structures	To FORM 3D structures using MULTIPLE 3D objects.
	Lesson 6 - Making Patterns	To MAKE and recognise patterns using 3D shapes.

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Year 2 Lesson Breakdown

Fractions: Fractions

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 13 - Fractions	Lesson 1 - Showing Equal Parts	To MAKE equal parts FROM a whole using SIMPLE and COMPLEX METHODS.
	Lesson 2 - Showing Half and Quarter	To show and recognise halves and quarters.
	Lesson 3 - Showing Quarters	To show and identify MORE than one quarter using MATERIALS and pictures.
	Lesson 4 - Showing Thirds	To show and identify thirds in shapes; to use the vocabulary 'NUMERATOR' and 'DENOMINATOR' when referring to fractions.
	Lesson 5 - NAMING Fractions	To identify and NAME fractions by looking at the NUMBER of pieces and how MANY are shaded in.

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Year 2 Lesson Breakdown

Fractions: Fractions

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 13 - Fractions	Lesson 6 - Making a Whole	To be able to recognise pairs of fractions that add up to a whole.
	Lesson 10 - Finding Part of a Set	To find fractions (half) of whole NUMBERS.
	Lesson 11 - Finding Part of a Set	To find a fraction (third) of a whole NUMBER.
	Lesson 12 - Finding Part of a Set	To find a fraction (quarter) of a NUMBER.
	Lesson 13 - Finding Part of a Quantity	To find a fraction (half, third, quarter) of a quantity (length).

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Year 2 Lesson Breakdown

Measurement: Time

Maths — No Problem! Book Reference	Lesson Name	Lesson Objective
Chapter 14 - Time	Lesson 1 - Telling and Writing Time to 5 Minutes	To tell and write time to 5-minute intervals.
	Lesson 2 - Telling and Writing Time	To tell time to 5-minute intervals and to the hour.
	Lesson 3 - Sequencing Events	To sequence events of the day by looking at analogue clocks and pictures.
	Lesson 4 - Drawing Clock Hands	To draw hands on an analogue clock to show the correct time.

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Year 2 Lesson Breakdown

Measurement: Volume

Maths — No Problem! Book Reference	**Lesson Name**	**Lesson Objective**
Chapter 15 - Volume	Lesson 1 – Comparing Volume	To compare volume in different-sized containers using the terms 'greater than,' 'less than,' 'greatest' and 'least.'
	Lesson 2 – Comparing Volume	To compare the volume of different containers using non-standard units.
	Lesson 3 – Measuring Volume in Litres	To measure volume using litres and determine whether an amount is 'more than,' 'less than' or 'equal to' a litre.
	Lesson 4 – Measuring Volume in Millilitres	To measure volume using millilitres and litres; to determine how many ml there are in 1 l.
	Lesson 5 – Solving Word Problems	To solve word problems involving bar models with litres as the standard unit.
	Lesson 6 – Solving Word Problems	To solve word problems using ml and l, including problems involving difference.
	Lesson 7 – Solving Word Problems	To solve word problems involving volume and multiplication.

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