



Love Care Respect

*To aspire to being outstanding in everything we
do, by always aiming higher.*

"Let your light shine in all you say and do."

Matthew 5:16

Maths Overview - Years 1 and 2

Teaching sequence

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12
Autumn	Number: Place Value					Number: Addition and Subtraction				Measurement: Money		Assessment
Spring	Measurement: Length and Height		Measurement: Weight and Volume		Number: Multiplication and Division				Geometry: Shape	Geometry: Properties of Shape		Assessment
Summer	Number: Fractions		Geometry: Position and Direction		Measurement: Time		Statistics		Measurement: Mass, Capacity and Temperature			Assessment

National Curriculum Targets for Year 1 and 2

Place Value

Year 1

Read and write numbers from 1 to 20 in numerals and words

Read and write numbers from 1 to 100 in numerals

Identify one more/one less from a given number

Count to and across 100, forwards and backwards from any given number

Year 2

Read and write numbers to at least 100 in numerals and words

Compare and order numbers from zero up to 100 using $>$, $<$ and $=$

Understand the value of each digit in a 2 digit number

Identify, represent and estimate numbers using different representations, eg: $23 = 20 + 3$ and $23 = 10 + 13$ Funny Counting

Multiplication and Division

Year 1

Multiply and divide using concrete objects, pictorial representations and arrays with the support of the teacher

Year 2

Know that multiplication can be done in any order (Commutative)

Know that division of one number by another cannot be done in any order

Addition and Subtraction

Year 1

Add and subtract in ones using practical resources

Add and subtract in ones using a structured number line

Add and subtract one digit and two digit numbers to 20, including 0

Use number bonds and related addition and subtraction facts within 20

Read, write, and interpret maths stories involving addition and subtraction

Year 2

Partition 2 and 3 digit numbers and add vertically without crossing boundaries

Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100

Add and subtract 2-digit numbers and ones or tens using concrete objects and pictorial representations and mentally

Add two 2 digit numbers using concrete objects and pictorial representations and mentally

Add 3 one digit numbers using concrete objects and pictorial representations and mentally

Know that addition can be done in any order, commutative law

Fractions

Year 1

Recognise, find and name a half as one of two equal parts of an object, shape or quantity

Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity

Year 2

Recognise, find, name and write fractions, $\frac{1}{3}$ $\frac{1}{4}$ $\frac{3}{4}$ of a length, shape, set of objects or quantity

Write simple fractions such as $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Shape

Year 1

Recognise and name common 2D shapes (rectangle, square, circle, triangle)

Recognise and name common 3D shapes (cuboid, cube, pyramid, sphere)

Year 2

Compare and sort common 2D and 3D shapes and everyday objects

Identify 2D shapes on the surface of 3D shape e.g. a circle on a cylinder

Identify, describe and sort 3D shapes by talking about the number of faces, edges and vertices

Identify, describe and sort 2D shapes by naming them, talking about the number of sides and showing a vertical line of symmetry

Position and Direction

Year 1

Describe position, direction and movement including whole, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ turns

Year 2

Distinguish between rotation as a turn and in terms of right angles for quarter, half and three quarter turns

Use mathematical vocabulary to describe position, direction and movement including movement in a straight line

Order and arrange combinations of mathematical objects in patterns and sequences

Measurement

Year 1

Compare, describe, measure and begin to record length and height, capacity and volume, weight and mass, time

Recognise and know the value of different denominations of coins and notes

Sequence events in chronological order using before, after, today, tomorrow

Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times

Year 2

Compare and order measures and record using $<$ $>$ $=$

Find different combinations of coins that equal the same amounts

Recognise and use symbols for £ and p and combine amounts to make a particular value

Choose appropriate units of measure to estimate length, height, mass and capacity to the nearest, appropriate unit using rulers, scales, thermometers and measuring vessels

Tell and write the time to 5 minutes, including quarter past and quarter to and draw the hands on a clock face

Compare and sequence intervals of time

Know how many hours there are in a day and how many minutes in an hour

Statistics

Year 2

Interpret and construct simple pictograms, tally charts, block diagrams and simple tables

Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity

Ask and answer questions about totalling and comparing categorical data

Times Tables

Year 1

Count in multiples of 2s, 5s, 10s

Year 2

Recall and use multiplication and division facts for 2, 5 and 10 times tables

Recognise odd and even numbers

Count in 2s, 3s and 5s from zero

Count in 10s from any number forwards and backwards

Monday – Arithmetic Day – Every Week

<p>Term 1</p>	<p>MMS1 Arithmetic 1 and Arithmetic 2:</p> <p>Block 1</p> <ul style="list-style-type: none"> • Copy addition and subtraction Maths stories with 1 digit whole numbers, zero, a half and a quarter. e.g. $2 + \frac{1}{2} + \frac{1}{2} = 3$ • Act the Real Story for addition and subtraction Maths stories with 1 digit whole numbers, zero, a half and a quarter • Look at a Maths Story and read what it says, e.g. <i>Two, add a half, add a half, equals three.</i> Look at a Maths Story and read what it means, e.g. <i>Two cups, add a half cup, add a half cup, equals three cups.</i> <p>MMS1 Arithmetic 1 Block 2</p> <ul style="list-style-type: none"> • Copy a written addition Maths Story with multiples of ten, a hundred or a thousand. e.g. $200 + 500 = 700$ • Look at an addition Maths Story with multiples of ten, a hundred or a thousand and read what it says, e.g. <i>two (pause) hundred, add five (pause) hundred, equals seven (pause) hundred.</i> 																																																																
<p>Term 2</p>	<p>MMS1 Arithmetic 1 Block 3</p> <ul style="list-style-type: none"> • Copy on squared paper, vertical additions with 2 digit whole numbers. <div style="text-align: right;"> <table border="1" style="border-collapse: collapse; margin-left: auto;"> <tr><td style="padding: 2px;">4</td><td style="padding: 2px;">5</td></tr> <tr><td style="padding: 2px;">+</td><td style="padding: 2px;">2 4</td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> </table> </div> <ul style="list-style-type: none"> • Calculate answers to vertical additions with 2 digit whole numbers (no tricky columns) using number pairs for assistance. <div style="text-align: right;"> <table border="1" style="border-collapse: collapse; margin-left: auto;"> <tr><td style="padding: 2px;">4</td><td style="padding: 2px;">5</td></tr> <tr><td style="padding: 2px;">+</td><td style="padding: 2px;">2 4</td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> <tr><td style="padding: 2px;">6</td><td style="padding: 2px;">9</td></tr> </table> </div> <p>MMS1 Arithmetic 1 Block 4</p> <ul style="list-style-type: none"> • Copy vertical additions and subtractions with 2 digit and 3 digit whole numbers. <div style="text-align: right;"> <table border="1" style="border-collapse: collapse; margin-left: auto;"> <tr><td style="padding: 2px;">4</td><td style="padding: 2px;">2</td><td style="padding: 2px;">5</td></tr> <tr><td style="padding: 2px;">+</td><td style="padding: 2px;"> </td><td style="padding: 2px;">1 4</td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> </table> <table border="1" style="border-collapse: collapse; margin-left: 20px;"> <tr><td style="padding: 2px;">7</td><td style="padding: 2px;">2</td><td style="padding: 2px;">8</td></tr> <tr><td style="padding: 2px;">-</td><td style="padding: 2px;"> </td><td style="padding: 2px;">1 5</td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> </table> </div> <ul style="list-style-type: none"> • Use the correct operation and calculate answers to vertical additions and subtractions with 2 digit and three digit whole numbers (no tricky columns). <div style="text-align: right;"> <table border="1" style="border-collapse: collapse; margin-left: auto;"> <tr><td style="padding: 2px;">4</td><td style="padding: 2px;">2</td><td style="padding: 2px;">5</td></tr> <tr><td style="padding: 2px;">+</td><td style="padding: 2px;"> </td><td style="padding: 2px;">1 4</td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> <tr><td style="padding: 2px;">4</td><td style="padding: 2px;">3</td><td style="padding: 2px;">9</td></tr> </table> <table border="1" style="border-collapse: collapse; margin-left: 20px;"> <tr><td style="padding: 2px;">7</td><td style="padding: 2px;">2</td><td style="padding: 2px;">8</td></tr> <tr><td style="padding: 2px;">-</td><td style="padding: 2px;"> </td><td style="padding: 2px;">1 5</td></tr> <tr><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td><td style="padding: 2px;"> </td></tr> <tr><td style="padding: 2px;">7</td><td style="padding: 2px;">1</td><td style="padding: 2px;">3</td></tr> </table> </div>	4	5	+	2 4					4	5	+	2 4			6	9	4	2	5	+		1 4							7	2	8	-		1 5							4	2	5	+		1 4				4	3	9	7	2	8	-		1 5				7	1	3
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Term 3

MMS1 Arithmetic 1 Block 5

- Copy vertical additions and subtractions with any pair of 2 digit, 3 digit or 4 digit numbers.

$$\begin{array}{r} 2357 \\ + \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} 4545 \\ - \quad 11 \\ \hline \end{array}$$

- Use the correct operation and calculate vertical additions and subtractions with 2 digit, 3 digit or four digit numbers (no tricky columns).

$$\begin{array}{r} 2357 \\ + \quad 21 \\ \hline 2378 \end{array}$$

$$\begin{array}{r} 4545 \\ - \quad 11 \\ \hline 4534 \end{array}$$

MMS2 Arithmetic 2 Block 2

- Copy multiplication Maths Stories with 1 digit whole numbers, e.g.
- Act the Real Story using multiplication Maths Stories with 1 digit whole numbers, e.g.

$$2 \times 4 = 8$$

$$2 \times 4 = 8$$

Term 4

MMS2 Arithmetic 1 Block 1

- Copy and calculate addition, subtraction, multiplication and division Maths Stories with 1 digit whole numbers, including zero, a half and a quarter.

$$4 - 2 + 0 + \frac{1}{2} + \frac{1}{2} = 3$$

MMS2 Arithmetic 1 Block 2

- Copy and calculate vertical additions, with up to 4 digit whole numbers and a tricky units column using funny counting.

$$\begin{array}{r} 3739 \\ + 2222 \\ \hline 5961 \end{array}$$

Term 5

MMS2 Arithmetic 1 Block 3

- Copy and calculate vertical subtractions, with up to 4 digit whole numbers and a tricky units column using funny counting.

$$\begin{array}{r} 87\overset{3}{\cancel{4}}\overset{1}{5} \\ - 3227 \\ \hline 5518 \end{array}$$

MMS2 Arithmetic 2 Block 2

- Say and write an addition Maths Story to partition a 2 digit, 3 digit or 4 digit whole number, e.g. write

$$3246 = 3000 + 200 + 40 + 6$$

Term 6

MMS2 Arithmetic 1 Block 6

- Copy and calculate addition and subtraction Maths Stories, with up to 4 digit whole numbers as vertical additions or subtractions (with or without a tricky column).

$$845 + 154 =$$

8	4	5	
+	1	5	4
<hr/>			
9	9	9	

$$544 - 325 =$$

5	³ 4	¹ 4	
-	3	2	5
<hr/>			
2	1	9	