

Year 2 Long Term Maths Plan. 2017-18

| Autumn Term 1 | | |
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| Wk | Strands | Weekly Summary |
| 1 | Number and place value (NPV); Problem solving, reasoning and algebra (PRA) | Read and write numbers up to 100; locate numbers on 0–100 beaded lines and 1–100 squares; compare pairs of numbers; order three numbers, use < and > |
| 2 | Mental addition and subtraction (MAS); Problem solving, reasoning and algebra (PRA) | Revise number bonds to 6, 7, 8, 9 and 10; know number bonds to 10 and begin to learn related subtraction facts; know multiple of 10 number bonds to 100, learn bonds to 20, rehearse number bonds to 10, 20 and 100 by solving problem questions. |
| 3 | Number and place value (NPV); Problem solving, reasoning and algebra (PRA) | Partition 2 and 3 digit numbers into tens and units, partition numbers into different combinations of tens and units, order numbers smallest to largest using place value, solve place value additions and subtractions mentally, solve problem questions involving knowledge of place value. |
| 4 | Mental multiplication and division (MMD); Mental addition and subtraction (MAS); Problem solving, reasoning and algebra (PRA) | Double numbers to double 15, use patterns in number bonds, use number bonds to solve more difficult additions, begin to estimate answers |
| 5 | Geometry: properties of shapes (GPS); Statistics (STA) | Sort 2D shapes according to symmetry properties, recognise squares, rectangles, circles, triangles, ovals and hexagons, investigate which tessellate, sort shapes and objects using Venn diagrams. |
| 6 / 7 | Number and place value (NPV); Problem solving, reasoning and algebra (PRA); Mental addition and subtraction (MAS) | Add ones to 2 digit numbers, find 10 more and 10 less, find 10p more and 10p less, begin to add and subtract different multiples of 10 to a 2 digit number, solve problem questions involving addition and subtractions. PART OF WEEK 7 WILL BE COMPLETING ASSESSMENTS IN MATHS, READING AND GPS |

| Autumn Term 2 | | |
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| Wk | Strands | Weekly Summary |
| 1 | Measurement (MEA); Number and place value (NPV); Problem solving, reasoning and algebra (PRA); Mental addition and subtraction (MAS) | Recognise all coins, know their value, and use them to make amounts; recognise £5, £10, £20 notes; make the same amount using different coins; order coins 1p – £2 and notes £5 – £20; begin to add amounts, solve money problems. |
| 2 | Mental addition and subtraction (MAS); Number and place value (NPV); Problem solving, reasoning and algebra (PRA) | Add and subtract 10, 20 and 30 to any 2-digit number; Add and subtract 11, 21, 12 and 22 to any 2-digit number; understand subtraction is the inverse relationship to addition; solve addition and subtractions by counting on and back in 10s then in 1s; solve addition and subtraction problem questions using concrete and pictorial representations |
| 3 | Mental addition and subtraction (MAS); Problem solving, reasoning and algebra (PRA); | Add two 2 digit numbers using number lines, add two 2 digit numbers using partitioning. Solve problem questions involving addition. |
| 4 | Mental multiplication and division (MMD); Measurement (MEA); Problem solving, reasoning and algebra (PRA) | Count in 2s, 5s and 10s from zero; Count in multiples of 2p, 5p and 10p; Number sequences of 2s, 5s and 10s; Solve multiplication questions but counting in 2s, 5s and 10s; solve multiplication questions by using arrays; Understand that division is the inverse relationship to multiplication; Solve division questions. |
| 5 | Measurement (MEA); Number and place value (NPV); Problem solving | Read scales which increase in 1s, 2s, 5s, 10s and 100s; Measure given amounts on scales; Understand capacity, weight, length; Understand kg, g, m, cm, g and kg; Solve problem questions involving measurement. |
| 6 | Measurement (MEA); Statistics (STA) | Tell the time to the nearest quarter of an hour using analogue and digital clocks; understand the relationship between seconds, minutes and hours; Recap months and days of the week; Solve problem questions involving time. |

WEEK 7 WILL BE ASSESSMENT WEEK AND CHILDREN WILL COMPLETE ASSESSMENTS IN MATHS, READING AND GPS.

| Spring Term 1 | | |
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| Wk | Strands | Weekly Summary |
| 1 | Measurement (MEA); Statistics (STA) | Tell the time to the nearest quarter of an hour using analogue and digital clocks; understand the relationship between seconds, minutes and hours; Recap months and days of the week; Solve problem questions involving time. |
| 2 | Number and place value (NPV); Problem solving, reasoning and algebra (PRA) | Sequencing time, sequencing numbers in steps of 10, 5, 2 and 3. Sequencing shapes. Partitioning 2 digit numbers into tens and units. Partition 2 digit numbers in different ways. |
| 3 | Geometry: properties of shapes (GPS); Statistics (STA) | Sort 2D / 3D shapes according to their properties. Sort shapes into Venn diagrams and Carroll diagrams. |
| 4 | Statistics (STA) | Collect and organise data in charts, including tally chart. Represent data using bar charts. Compare and answer questions involving bar charts. |
| 5 | Number. Multiplication and division | Know facts for the 2, 5 and 10 times tables. Use arrays to show multiplication knowledge. Understand the commutative law of multiplication. Understand division as the inverse relationship of multiplication. Divide using a number line. Answer problem questions and reasoning questions involving multiplication and division. |
| 6 / 7 | Fractions. | recognise, find, name and write fractions $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$ of a length, shape, set of objects or quantity write simple fractions for example, of 6 = 3 and recognise the equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ PART OF WEEK 7 WILL BE COMPLETING ASSESSMENTS IN MATHS, READING AND GPS |

| Spring Term 2 | | |
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| Wk | Strands | Weekly Summary |
| 1 | Number. Addition and subtraction | Add 3 one-digit numbers using number bonds to 10 to support. Add 3 one-digit numbers using doubles to support. |
| 2 | Measurement | Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. |
| 3 | Number Addition and Subtraction. | Recall and use facts to 20 fluently, and derive and use related facts up to 100. Add and subtract: two digit number and tens two two-digit numbers (using a blank number line) |
| 4 | Number Multiplication and division. | Multiplication can be done in any order (commutative) and division of one number by another cannot. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts. |
| 5 | Geometry | Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise). |
| 6 | Measurement | Tell and write the time to five minutes, including quarter past/to the hour and draw hands on a clock face to show these times. PART OF WEEK 7 WILL BE COMPLETING ASSESSMENTS IN MATHS, READING AND GPS. |

| Summer Term 1 | | |
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| Wk | Strands | Weekly Summary |
| 1 | Mental addition (MA) and Estimation | Round numbers to the nearest 10. Estimate addition of two 2 digit numbers by rounding to the nearest 10. Use estimation to check an answer is reasonable. |
| 2 | Mental addition and subtraction (MAS) Mental multiplication and division (MMD); | Understand vocabulary of the 4 operations. Use a variety of appropriate methods to answer questions: number line, partitioning, count on and count backwards etc. Complete problem questions based around the 4 operations. Complete 2 step problem questions. |
| 3 | Statistics (STA) | Complete a tally chart; draw a block graph with a scale of 1 and a scale of 2; answer questions about block graph comparing data; draw a pictogram where the picture represents 1 child; draw a pictogram where the picture represents 2 children; answer questions about a pictogram. |
| 4 | This week will be used to complete SATs tests. | |
| 5 | Time, Measurement (MEA) | Tell the time to the nearest quarter of an hour using analogue and digital clocks; understand the relationship between seconds, minutes and hours; order time from the shortest period to the longest period; Begin to tell time to the nearest 5 minutes. |

| Summer Term 2 | | |
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| Wk | Strands | Weekly Summary |
| 1 | Measurement | Estimate lengths. Use a ruler to measure in cm. Understand the difference in using mm, m and cm. Measure weight in g and kg. Look at appropriateness of using kg or g to weigh certain objects. Read scales. Compare units of measure using < > and = |
| 2 | Mental multiplication and division (MMD); Problem solving, reasoning and algebra (PRA) | Count in 3s, recognising numbers in the 3 times-table; write multiplications to go with arrays and use arrays to solve multiplication problems; understand that multiplication is commutative and that division and multiplication are inverse operations; solve divisions as multiplications with a missing number; count in 2s, 3s, 5s and 10s to solve divisions and solve division problems in contexts |
| 3 | | Fractions |
| 4 | Mental addition and subtraction (MAS) | Recognise the inverse relationships between addition and subtraction and use this to check calculations and work out missing number problems e.g. $__ - 14 = 28$ |
| 5 | Number and place value (NPV); Mental addition and subtraction (MAS) | Compare two 2-digit numbers and find bonds to 100 using thermometers; revise place value in 2-digit numbers, numbers between 100 and 200, and 3-digit numbers (including zeros in the 10s and 1s places) |