

<u>'Together we unlock potential and learn for life'</u> Moor First School – Progression in Maths

| Orange | Orange | Orange /74 | Orange /27 |
|---------------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|
| 14% beginning | 43% developing | 71% Secure | 26% greater depth 1 |
| 29% beginning + | 57% developing + | 86% secure + | 56% greater depth 2 |
| | | | 85% greater depth 3 |
| | Number, Place Va | alue and Rounding | |
| 1. Count in 2's, 5's and 10's from 0 | 28. I can count forward in steps of 10 | 50. I can count in 3's. | 75. Recognise and identify a multiple |
| and use this to solve problems. | from any number up to 100 (e.g. 34, | 54 have a sheat with the set | of 2, 5 and 10 of any given number. |
| | 44, 54, 64). | 51. I can count backward in steps of | |
| 2 Lam confident recording my | | to from any given number. | 76 Bocognico and understand the |
| thinking or working out on a number | 29 Loan identify represent and | 52 I can identify represent and | place value of each digit in a three- |
| line | estimate numbers using a number | estimate numbers using the | digit number (hundreds tens and |
| inte. | line | expanded column method | ones). |
| | | | |
| 3. Read and write numbers in | | | 77. Accurately estimate numbers on |
| numerals up to 100. | 30. I am confident in knowing the | 53. I can read and write numbers to | an empty line and explain why they |
| | value of each digit in a 2-digit | at least 100 (numerals and words). | have placed my number in that |
| | number. | | position. |
| 4. Compare numbers from 0 up to | | 54. I can use my knowledge of place | |
| 100 using the greater than > and the | 31. Compare and order numbers | value and number facts to solve | |
| less than < signs. | from 0 up to 100 using the greater | problems. | 78. Solve problems using <, > and = |
| | than > and less than < and = signs. | | signs numbers up to 100 and explain |
| | | 55. I can partition any 2 digit number | my reasoning. |
| 5. I understand what tens and ones | | into different combinations of tens | |
| are and can use structured resources | | and ones, explaining their thinking | 70 Dood numbers correctly in words |
| to begin to partition. | | opportus | 79. Read numbers correctly in words |
| | | apparatus. | nrohlem |
| | | | problem. |
| | | 15 | 80. Explain the method I have used |
| | | | and how the problem was solved and |
| | | | why the answer is correct. |
| | | | |
| | | | |
| Y2 Autumn expected = orange beginning | | | |
| Y2 Summer expected = orange secure | | | |



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| 6. Recall at least four of the six | | 56. I can recall and use number facts | 81. Solve unfamiliar word problems |
|------------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------|
| number bonds for 10 and reason | | up to 100 (e.g. 70+30=100 and also | that involve more than one step (eg |
| about the associated facts (eg | | 75+25=100). | which has the most discuits, 4 |
| 6=4) | | | packer or 3 packets of biscuits with |
| | 32. I can solve addition and | 57. When solving problems I can | 10in each packet?) |
| | subtraction problems involving | apply my knowledge of mental and | |
| 7. I can solve addition and | numbers, quantities and measures up | written methods (expanded column | |
| subtraction problems (with numbers | to 100. | method for addition and number line | 82. Use fluent recall of subtraction |
| up to and beyond 20). | | for subtraction). | and addition facts to support mental |
| | | 58. I can add and subtract two 2- | |
| | 33. I can add three 1-digit numbers in | digit numbers using an efficient | |
| 8. I can add 1 digit to a 2 digit number | my head (e.g. 8+6+4=18) or use | strategy, explaining their method | |
| by putting the biggest number in my | objects. | verbally, in pictures or using | 83. Use a written method to add and |
| head and counting on or using | 24 Lean add and subtract two digit | apparatus (eg 48 + 35, 72 – 17) | subtract two 2 digit numbers from 2 |
| objects. | and ones and two digit numbers | | aigit numbers. |
| | and tens where no regrouping is | 59. I can demonstrate my | |
| | required, explaining their method | understanding that addition of 2 | |
| 9. I can add multiples of 10 to a 2- | verbally, in picture or using | numbers can be done in any order | |
| digit number (e.g. 34+20=54) in my | apparatus (eg 23 + 5, 46 + 20, 16 – 5, | and subtraction of 1 number from | 84. Be able to make 2 correct |
| head. | 88 – 30). | another cannot. | additions and 2 subtractions using 2 |
| | | | digit numbers. |
| | 35. I am beginning to add two 2-digit | CO Pecall all number bonds to and | |
| 10 Lunderstand that numbers can be | expanded column method (e.g. | bulkecall all number bonds to and | |
| added in any order | 23+21 in my head but $28+26$ using | with and calculate bonds to 20 | 85. Use reasoning about numbers |
| | the expanded column method). | recognising other associated | and relationships to solve more |
| | | additive relationships (eg if 7 + 3 = | complex problems and explain their |
| 11. Recognise the inverse | | 10 then 17 + 3 = 20, if 7 – 3 = 4, then | thinking. |
| relationship between addition and | 36. I understand that when | 17 – 3= 14; leading to if 14+3=17 | |
| subtraction (e.g. 6+4=10 so 10-4=6). | subtracting, the biggest number must | then 3 + 14 =17, 17 – 14 = 3 and 17 – | |
| | go first. | 3 =14) | |
| | | 16 | |
| | | | |
| | | | |
| | | | |



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| Multiplication and Division | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 12. I recognise odd and even numbers. 13. I can recall the multiplication facts for the 2, 5 and 10 times tables. 14. Solve simple multiplication and division sums using apparatus and arrays (e.g. multi-link). | Multiplicatio 37. I am beginning to recall some related division facts (e.g. 6x2=12 so 12÷2=6). 38. Solve multiplication and division sums in my head or using a number line. 39. I understand that when dividing, the biggest number must go first. | n and Division 61. I can recall and use the multiplication and division facts for the 2, 5 and 10 times tables and use them to solve simple problems, demonstrating an understanding of commutativity as necessary. | 86. Use commutativity and inverse relations to develop multiplicative reasoning (e.g. 4 X 5 = 20 and 20 ÷ 5 = 4). 87. Recognise and use the inverse relationships between multiplication and division. 88. Show and explain how knowing a multiplication fact helps me to solve a division word problem and record | |
| 15. I understand that numbers can be multiplied in any order. | | | related number sentences. 89. Recall and use multiplication and division facts for 2,5 and 10 and make deductions outside known multiplication facts. | |
| | Fractions, Decima | Is and Percentages | | |
| 16. I am beginning to find, name and write 1/3, ¼, 2/4 (1/2) and ¾ of a length, shape, set of objects or quantity. | 40. I recognise there are 2 halves in a whole, 3 thirds in a whole and 4 quarters in a whole. 41. I am beginning to recognise equivalent fractions (e.g. 2/4 is equal to ½, or 6 halves are equal to 3 wholes). | 62. Identify ¼, 1/3, ½, 2/4, ¾ of a number or shape, and know that all parts must be equal parts of the whole. 63. I can use my knowledge of equivalent fractions. 13 | 90. Solve and explain how to use fractions when solving problems using shape, objects and quantities. 91. Count in halves and quarters up to 10 on a number line and begin to understand the concept of fractions as numbers. | |



| Measurement | | | |
|---------------------------------------|-----------------------------------------|---------------------------------------|----------------------------------------|
| 17. I can carefully measure length, | 42. I can estimate length, height | 64. I can choose appropriate units to | 92. Add and subtract different |
| height (m/cm), mass (kg, g), | (m/cm), mass (kg, g), temperature | measure in and compare and order | measures to help me solve and |
| temperature (°c) and capacity (l/ml) | (°c) and capacity (I/mI) using standard | measurements. | explain a problem. |
| | units. | | |
| 18. I can read scales in divisions of | | | 93. I can read scales in 1's, 2's, 5's |
| ones, twos, fives and tens. | | | and 10's in practical situations when |
| | | 65. I can record measurements using | not all the numbers are on the scale |
| | 43. I can combine amounts of money | the <, > and = signs. | and estimate points in between. |
| 19. I can recognise and use the £ and | to make a given value. | | |
| p symbols. | | 66. I can use different coins to make | |
| | | the same amount. | 94. Solve and explain problems |
| 20. Know the value of different coins | | | involving addition and subtraction of |
| | | 67. I can solve simple problems | money of the same unit, including |
| | | involving money and give the correct | giving change. |
| 21. I am beginning to solve simple | 44. I can tell and write the time to | change. | |
| problems practically involving the | the nearest 15 minutes including | | |
| addition and subtraction of money. | quarter past and quarter to the | | 95. Solve and explain simple |
| | hour. | 68. I can draw the hands on a clock | problems involving time using a |
| 22. There are 60 minutes in an hour | | face to show these times. | number line. |
| and 24 hours in a day. | 45. I can compare and sequence | 15 | |
| | intervals of time. | | 96. I can read the time on a clock to |
| | | | the nearest 5 minutes. |



| Geometry: Properties of Shapes. | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 23. I can compare and sort common 2D and 3D shapes and everyday objects. 24. Name some common 2D and 3D shapes from a group of pictures of the shapes and describe some of their properties (eg triangles, rectangles, squares, circles, cuboids, cubes, pyramids and spheres). | 46. I can identify and describe the properties of 2D shapes including the number of sides, vertices and lines of symmetry. 47. I can identify 2D shapes on the surface of 3D shapes. | 69. I can identify and describe the properties of 3D shapes including the number of edges, vertices, faces and lines of symmetry. 70. I can identify and describe a vertical line of symmetry. | 97. Describe similarities and differences of 2D and 3D shapes, using their properties (eg, that two different 2D shapes both have only one line of symmetry, that a cube and cuboid have the same number of edges, faces and vertices, but different dimensions. | |
| | Geometry: Position | ا م, Direction, Motion | | |
| 25. I can recognise, continue and make my own patterns. | 48. I can recognise right angles as quarter turns. | 71. I can recognise, continue and make my own sequences of numbers. | 98. Work with patterns of shapes and predict what will come next. | |
| 26. I can use the correct mathematical words to describe position, direction and movement. | | 72. I can make quarter, half and three quarter turns clockwise and anti- clockwise. | 99. Understand the concept and language of angles (right angles) to describe 'turn' by applying rotations, including in practical contexts. | |
| Statistics | | | | |
| 27. Ask and answer simple questions by counting the number of objects in each category and sorting categories by quantities. | 49. I can make my own simple pictograms, tally charts, block diagrams and simple tables. | 73. I can interpret simple pictograms, tally charts, block diagrams and simple tables. | 100. Recognise simple pictograms, tally charts, block diagrams and tables. | |
| | | 74. I can ask and answer questions about totalling and compare data. 15 | 101. Be able to ask more complex questions about simple pictograms, tally charts, block diagrams and tables. | |



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