Larkrise Primary School Progression of Skills
Maths

Multiplication and division	
Recall, Represent, Use (EYFS)	Can they explore and represent patterns within numbers up to 10, including evens and odds, doubling facts. Can they say and explore how quantities can be distributed equally? Can they say that a pair is 2? Can they sort items into pairs?
Recall, Represent, Use (Year 1)	
Recall, Represent, Use (Year 2)	Can they recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers? Can they show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot?
Recall, Represent, Use (Year 3)	Can they recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables?
Recall, Represent, Use (Year 4)	Can they recall multiplication and division facts for multiplication tables up to 12 x 12? Can they use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 1 and multiplying together three numbers? Can they recognise and use factor pairs and commutativity in mental calculations?
Recall, Represent, Use (Year 5)	Can they recall factors, including finding all factor pairs of a number and common factors of two numbers? Can they know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers? Can they establish whether a number up to 100 is prime and recall prime numbers up to 19? Can they recognise and use square numbers and cube numbers, and the notation for square (^{2}) and cubed (^{3}) numbers?
Recall, Represent, Use (Year 6)	Can they recall and use factors, common multiples and prime numbers? Can they use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy?

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Calculations (EYFS)	
Calculations (Year 1)	
Calculations (Year 2)	Can they calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x) and division (÷) and equals (=) signs?
Calculations (Year 3)	Can they write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods?
Calculations (Year 4)	Can they write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for three-digit numbers times one-digit numbers, using formal written layout?
Calculations (Year 5)	Can they multiply numbers up to four-digits by a one-digit or two-digit number using a formal written method, including long multiplication for two-digit numbers? Can they multiply and divide numbers mentally drawing upon known facts? Can they divide numbers up to four-digits by a one-digit number using the formal written method of short division and interpret remainders approximately for the context? Can they multiply and divide whole numbers and those involving decimals by 10, 100 and 1000?
Calculations (Year 6)	Can they multiply numbers up to four-digits by a two-digit number using the formal written method of long multiplication? Can they divide numbers up to four-digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context? Can they divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context?

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Maths

Multiplication and division	
Solve problems (EYFS)	Can they solve problem involving sharing and grouping?
Solve problems (Year 1)	Can they solve problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher?
Solve problems (Year 2)	Can they solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts?
Solve problems (Year 3)	Can they solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects?
Solve problems (Year 4)	Can they solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects?
Solve problems (Year 5)	Can they solve problems involving multiplication and division including using their knowledge of factors and multiplies, squares and cubes? Can they solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates?
Solve problems (Year 6)	Can they solve problems involving addition, subtraction, multiplication and division?

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Maths

Multiplication and division	
Combined operations (EYFS)	
Combined operations (Year 1)	
Combined operations (Year 2)	
Combined operations (Year 3)	
Combined operations (Year 4)	
Combined operations (Year 5)	Can they solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign?
Combined operations (Year 6)	Can they use their knowledge of the order of operations to carry out calculations involving the four operations?