Berrybrook Primary School Long Term

Mathematics Arithmetic Curriculum 2022-23

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Early Years Foundation Stage	Provide pupils with opportunities to access learning activities to meet the following Early Learning Goals: **Number ELG** - Have a deep understanding of number to 10, including the composition of each number; - Subitise (recognise quantities without counting) up to 5; - Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. **Numerical Patterns ELG** - Verbally count beyond 20, recognising the pattern of the counting system; - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; - Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.					
1	• Initial assessments and transition • Count forwards in ones • Count backwards in ones • Count forwards and backwards in ones • Count forwards in twos • Count backwards in twos	• Count forwards and backwards in twos • Count forwards and backwards in twos • Count backwards in fives • Count forwards and backwards in fives • Count forwards in tens	• Count backwards in tens • Count forwards and backwards in tens • Identify and count forwards in ones, twos, fives and tens • Identify and count backwards in ones, twos, fives and tens • Identify more than a given number	• Identify less than a given number • Identify ore and less than a given number • Solve mathematical statements involving addition and equals signs • Solve mathematical statements involving subtraction and equals signs • Solve mathematical statements involving addition, subtraction and equals signs	• Solve missing number addition and subtraction problems • Solve multiplication problems • Solve division problems • Solve multiplication and division problems • Understand doubling	• Find half of a given number • Recognise half of a given number • Find a quarter of a given number • Recognise a quarter of a given number
2	• Initial assessments • Recall addition and subtraction facts up to 10 • Recall addition and subtraction facts up to 20 • Recall addition and subtraction facts up to 100	• Add numbers with up to 2 digits and ones • Add numbers with up to 2 digits and tens • Add two 2-digit numbers (Opportunity for formal written methods	• Subtract numbers with 2 digits and tens • Subtract two 2-digit numbers (Opportunity for formal written methods) Add or subtract two 2-digit numbers (Opportunity for formal written methods)	• Recall and use multiplication and division facts for the 2x table • Recall and use multiplication and division facts for the 5x table	• Find fractions of numbers • Recognise fractions of numbers • Find and recognise fractions of numbers	• Teacher to identify arithmetic skills and knowledge to be taught which is informed by KS1 Arithmetic Statutory Assessment Tests and the Teacher

		Subtract numbers with up to 2 digits and ones	Recognise and use the inverse relationship between addition and subtraction	Recall and use multiplication and division facts for the 10x table • Recall and use multiplication and division facts for mixed multiplication tables		Assessment Framework (TAF).
3	• Add two 2-digit numbers • Subtract two 2-digit numbers • Add or subtract two 2-digit numbers • Add numbers mentally • Add numbers with up to 3 digits and ones, mentally • Add numbers with up to 3 digits and tens, mentally • Add numbers with up to 3 digits and hundreds, mentally	• Add numbers with 2 digits • Add numbers with up to 3 digits • Subtract numbers mentally • Subtract numbers with up to 3 digits and tens, mentally • Subtract numbers with up to 3 digits and tens, mentally • Subtract numbers with up to 3 digits and hundreds, mentally	• Subtract numbers with 2 digits • Subtract numbers with up to 3 digits • Recall and use multiplication and division facts for the 2x table • Recall and use multiplication and division facts for the 5x table • Recall and use multiplication and division facts for the 10x table • Recall and use multiplication and division facts for the 3-times table	• Recall and use multiplication and division facts for the 4-times table • Recall and use multiplication and division facts for the 8-times table • Recall and use multiplication and division facts for mixed multiplication tables • Multiply numbers with 2 digits by a 1-digit number (Opportunity for columnar multiplication) • Divide numbers with 2 digits by a 1-digit number (Opportunity for columnar division) • Solve missing number multiplication and division problems	• Find fractions of numbers • Add fractions with the same denominator • Subtract fractions with the same denominator • Add or subtract fractions with the same denominator • Recognise that tenths arise from dividing numbers by 10	• Solve missing number addition and subtraction problems
4	• Add numbers with 2 digits (Opportunity for columnar addition) • Subtract numbers with 2 digits (Opportunity for columnar subtraction) • Add and Subtract numbers with 2 digits (Opportunity for columnar subtraction) • Add numbers with up to 3 digits • Add numbers with up to 4 digits • Subtract numbers with up to 3 digits • Recall and use multiplication and division facts for the 11-times table	• Subtract numbers with up to 4 digits • Use Inverse operations to solve calculations • Recall and use multiplication and division facts for the 6-times table • Recall and use multiplication and division facts for the 7-times table • Recall and use multiplication and division facts for the 9-times table	• Recall and use multiplication and division facts for the 11-times table • Recall and use multiplication and division facts for the 12-times table • Use known facts to multiply and divide, mentally • Multiply numbers with 2 digits by a 1-digit number • Multiply numbers with 3 digits by a 1-digit number • Divide numbers with 2 digits by a 1-digit number	• Divide numbers with 3 digits by a 1-digit number • Multiply and divide numbers with 3 digits by a 1-digit number • Multiply fractions and mixed numbers by whole numbers • Multiply fractions and mixed numbers by whole numbers	• Find fractions of numbers • Add fractions and mixed numbers with the same denominator • Subtract fractions and mixed numbers with the same denominator • Add or subtract fractions and mixed numbers with the same denominator • Find the effect of dividing numbers by 10 and 100	• Find the effect of dividing numbers by 10 and 100 Assess and Address

	• Recall and use multiplication and division facts for the 12-times table					
5	• Add numbers with up to 3 digits • Subtract numbers with up to 3 digits • Multiply numbers with 2 digits by a 1 digit number • Add whole numbers with up to 4 digits • Add whole numbers with 4 or more digits • Subtract whole numbers with up to 4 digits • Subtract whole numbers with up to 4 digits	• Subtract whole numbers with 4 or more digits • Multiply whole numbers with up to 3 digits by a 1-digit number • Multiply whole numbers with up to 4 digits by a 1-digit number • Multiply whole numbers with up to 3 digits by a 2-digit number (Questions set out as formal written method) • Multiply whole numbers with up to 4 digits by a 2-digit number. (Questions set out as formal written method) • Divide whole numbers with up to 3 digits by a 1-digit number	• Divide whole numbers with up to 4 digits by a 1-digit number • Multiply whole numbers and those involving decimals by 10, 100 and 1000 • Divide whole numbers and those involving decimals by 10, 100 and 1000 • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 • Add fractions and mixed numbers with the same denominator • Add fractions and mixed numbers with denominators that are multiples of the same number	• Subtract fractions and mixed numbers with the same denominator • Subtract fractions and mixed numbers with denominators that are multiples of the same number • Multiply fractions and mixed numbers by whole numbers • Find fractions of numbers (use as operators)	• Add decimal numbers with up to 3 decimal places • Subtract decimal numbers with up to 3 decimal places • Add or subtract decimal numbers with up to 3 decimal places • Find percentages of whole numbers	• Use this half term for revision and consolidation of previously taught objectives
6	Teacher to identify arithmetic skills and knowledge to be taught which is informed by the KS2 Arithmetic Statutory Assessment Tests.					