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|  **Year Group** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** |  **Summer 2** |
| **Reception** | Match, sort, and compare objects. Use words to describe measure and pattern. Use the numbers 1, 2, and 3. Recognise circles, triangles, rectangles, and squares.Reason using abduction. | Compare the mass of objects. Use the numbers, 6, 7, and 8. Compare length, and height. Order events using the words, ‘First’, ‘then’, ‘next’, ‘after’, and ‘finally’. Reason using abduction. | Addition and subtraction using objects. Fold and unfold shapes drawn on paper. Share and group objects, make maps of familiar places, and make connections between different maths ideas (‘concepts’). Reason using abduction. |
| **Year 1** | Sort and count objects. Recognise numbers as words. Count on and back from any number. Compare numbers. Practise addition and subtraction, using number bonds to ten. Recognise and name 3d shapes. Reason using abduction. | Count in steps of 2, 5 and 10, Divide by grouping and sharing. Calculate a half or a quarter of a quantity. Describe turns, and position. Compare numbers, and count coins. Write the days of the week and months of the year. Tell the time to the hour and half hour. Reason using abduction. | Count on and back from any number. Recognise numbers as words. Compare numbers. Use a part/whole model, and use number bonds to 10. Solve addition and subtraction problems. Recognise and name 2D and 3-D shapes. Reason using abduction. |
| **Year 2** | Count to 100. Add and subtract numbers, including across a 10. Addition and subtraction bonds within 20. Solve missing number problems Describe the properties of 2-D and 3-D shapes. Reason using abduction. | Solve money problems. Work with equal groups to solve problems. Use the multiplication symbol and write multiplication sentences, using arrays. Double and halve numbers. Measure length, mass and capacity. Reason using abduction. | Work with parts and wholes, and unit fractions. Recognise the equivalence of a half and two-quarters, and recognise three-quarters. Tell the time to 5 minutes. Represent data graphically. Reason using abduction. |
| **Year 3** | Represent and partition numbers to 100. Partition numbers to 1,000. Solve problems that involve the four operations, factors and multiples. Reason using abduction and induction. | Solve problems using the four operations. Calculate and measure length, perimeter, capacity and volume Compare and order unit fractions Visualise equivalent fractions as bar models. Measure. Reason using abduction and induction. | Calculate with fractions. Roman numerals to 12. Tell the time to the minute, and read time on a digital clock. Solve time problems. Interpret pictograms and bar charts. Reason using abduction and induction. |
| **Year 4** | Add and subtract fractions. Reason with fractions of an amount. Add and subtract money. Solve time problems. Measure and draw angles. Draw and interpret pictograms and bar charts. Reason using abduction and induction. | Solve problems involving the four operations. Convert between metric units of measurement. Calculate perimeter. Work with fractions. Reason using abduction and induction. | Order, compare, and round fractions and decimals. Solve money and time problems. Reason using abduction and induction. Classify shapes. Draw line graphs. Solve coordinate problems.  |
| **Year 5** | Roman numerals to 1,000. Partition, compare, order, and round numbers to 1,000,000. Solve problems involving the four operations. Calculate common multiples and factors. Work with fractions. Reason using abduction, induction, and deduction. | Solve problems using the four operations. Divide with remainders Work with fractions, decimals and percentages. Calculate perimeter and area. Draw, read, and interpret line graphs Reason using abduction, induction, and deduction | Measure angles to one degree. Calculate angles around a point, and on a straight line. Solve coordinates problems. Including translation and reflection. Solve problems involving the four operations. Convert between metric units of measurement. Reason using abduction, induction, and deduction |
| **Year 6** | Read, write, order, and round numbers to 10,000,000 Powers of 10. Solve problems involving the four operations. Long division with remainders Calculate with fractions. Reason using abduction, induction, and deduction | Solve ratio problems. Algebra. Work with decimals. Calculate percentages, area, perimeter and volume. Draw line graphs. Read and interpret pie charts. Solve reasoning problems. Reason using abduction, induction, and deduction | Measure and classify angles. Draw shapes accurately Nets of 3-D shapes. Read and plot points in four quadrants. Solve problems with coordinates. Reason using abduction, induction, and deduction |