Individually Strong, Collectively Stronger!

Maths	Year 6

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Place value LI: To read and write numbers up to 10 million. LI: To know what each digit represents in numbers to 10 million. LI: To compare and order numbers and explain thinking. LI: To investigate different ways to partition numbers up to ten million. LI: To round any whole number to the nearest 10 and 100. LI: To round any number to a given accuracy. **Addition and subtraction** LI: To solve place value problems in different contexts. LI: To use mental methods to solve addition and subtraction problems. LI: To solve place value problems in different contexts. LI: To round numbers accurately. LI: To use mental methods to solve addition problems. LI: To use mental methods to solve subtraction problems. LI: To consolidate the written method of addition. LI: To solve a range of addition word problems. LI: To consolidate the written method of subtraction.	**Fractions** LI: To calculate fractions of amounts. LI: To add proper fractions with different denominators. LI: To solve worded problems finding fractions of amounts. LI: To add proper fractions with different denominators. LI: To find equivalent fractions using multiplication facts. LI: To subtract proper fractions with different denominators. LI: To simplify fractions using common factors. LI: To subtract proper fractions with different denominators. LI: To express two fractions to have the same denominator. LI: To add mixed numbers fractions with different denominators. LI: To compare and order fractions. LI: To subtract mixed numbers fractions with different denominators. LI: To convert between mixed number and improper fractions. LI: To convert fractions into decimals and decimals into fractions. LI: To solve fraction problems.	**Number** LI: To consolidate the column method of addition. LI: To consolidate the column method of subtraction. LI: To multiply numbers by 1 digit using the column method. LI: To multiply numbers by 2 digits using the column method. LI: To consolidate written division by 1 digit. LI: To consolidate written division by 2 digits. LI: To understand how to use BODMAS to solve calculations. LI: To apply written methods to problem solving. LI: To solve worded problems using a range of methods. **Fractions** LI: To add fractions with different denominators. LI: To subtract fractions with different denominators. LI: To multiply and divide fractions. LI: To understand equivalent fractions and simplify fractions. LI: To convert fractions to decimals to percentages. LI: To order fractions, decimals and percentages. LI: To calculate a percentage of an amount.	**Measures** LI: To understand the relationship between units of length and solve problems using length. LI: To understand the relationship between units of mass and solve multi-step problems using mass. LI: To apply knowledge to number and worded problems. LI: To understand the relationship between units of capacity and solve multi-step problems using capacity. LI: To multiply and divide by 10, 100 and 1000. LI: To convert between measures accurately using place value. **Ratio and proportion** LI: To identify and understand the relationship between ratio and fractions. LI: To calculate ratios accurately and solve problems. LI: To understand the difference between ratio and proportion and solve worded problems linked to each. **Geometry – angles** LI: To identify different types of angles and know the properties of angles.	**Four operations** LI: To add and subtract decimal numbers. E.g. 6 – 7.89 LI: To divide numbers by 1 digit. LI: To multiply using the column method. LI: To use the inverse to solve addition problems. LI: To use the inverse to solve subtraction problems. LI: To add numbers using the column method. LI: To subtract numbers using the column method. LI: To multiply by 10, 100 and 1000. LI: To divide by 10, 100 and 1000. LI: To use BODMAS to solve problems. LI: To fill in missing gaps in partitioning. E.g. 500, 894 = 500,000 + 800 + ____ + 4 LI: To solve squared and cubed problems. **FDP** LI: To find simple percentages of amounts (multiples of 10). LI: To find percentages of amounts (e.g. 67%). LI: To find fractions of amounts. LI: To order decimal numbers (e.g. 7.2, 7.02, 7.201, 7.003)	**Number** LI: To solve problems involving negative numbers in different contexts. LI: To solve missing number column addition problems. LI: To solve missing number column subtraction problems. LI: To solve add and subtract multi-step problem involving money. LI: To round numbers to the nearest 10, 100 and 1000. LI: To multiply numbers by a 2-digit number. LI: To divide numbers by a 2-digit number. LI: To solve multi-step multiplication and division problems. LI: To calculate number problems using BODMAS. **Fractions** LI: To add and subtract fractions, including mixed number fractions. LI: To find fractions of amounts, quantities and shapes. LI: To identify and understand fraction, decimal and percentage equivalents. LI: To find percentages of amounts (50%, 25%, 75%, multiples of 10%).

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LI: To solve a range of subtraction word problems. **Multiplication and division** LI: To identify multiples and prime numbers using tests of divisibility. LI: To investigate the factors of numbers. LI: To find common factors of two or more numbers. LI: To multiply numbers mentally by 1 digit using known facts and partitioning. LI: To multiply by 10, 100 and 1000. LI: To understand column method multiplication with 4 by 1 digits. LI: To divide by 10, 100 and 1000. LI: To solve multiplication worded problems. LI: To solve mixed worded problems using column methods. LI: To divide numbers mentally using known facts. LI: To understand short division for 4 by 1 digits. LI: To divide 3 digit numbers by 2 digit numbers using short division. LI: To solve mixed worded problems using all operations. **Fractions** LI: To calculate fractions of amounts and apply this to worded problems.	**Decimals** LI: To read and write decimal numbers. LI: To order decimals with up to 3 dp. LI: To round decimals with 2d.p. to the nearest decimal place. LI: To multiply and divide numbers by 10, 100 and 1000. LI: To use equivalences between simple fractions, decimals and percentages. LI: To solve number problems involving decimals. LI: To estimate to the nearest 10, 100, 1000, 10000 and 100000. LI: To estimate to check answers to determine levels of accuracy. LI: To solve mixed operation problems. LI: To solve problems in different contexts. **Geometry** LI: To classify a range of triangles according to the angle and side properties. LI: To classify a range of quadrilaterals according to their angle and side properties. **Measures** LI: To read, write and convert between units of length. LI: To read, write and convert between units of mass and capacity.	LI: To calculate the total when given a percentage amount. **Algebra** LI: To apply an algebraic rule to a number sequence (nth term). LI: To write formula for a calculation. LI: To find missing values in a formula. **Measures** LI: To understand negative numbers and solve problems using negative numbers. LI: To multiply and divide by 10, 100 and 1000. LI: To convert between metric measures. LI: To solve worded problems using knowledge of measures. LI: To calculate differences between miles and kilometres. LI: To convert between imperial and metric measures. **Measures** LI: To calculate the perimeter of regular and irregular shapes. LI: To use knowledge of perimeter to solve word problems. LI: To calculate the area of squares, rectangles and triangles. LI: To calculate the area of a parallelogram.	LI: To measure angles using a protractor accurately. LI: To draw angles using a protractor accurately. LI: To apply knowledge to number and worded problems. LI: To calculate missing angles on a line and within a triangle. LI: To calculate missing angles around a point and within a quadrilateral. LI: To understand the equality in vertically opposite angles. **Geometry – shapes** LI: To draw shapes accurately using a ruler and a protractor. LI: To recognise nets of 3D shapes and explain why they are successful or not. LI: To draw nets of 3D shapes to investigate their properties. LI: To understand the relationship between the radius and the diameter of a circle. **Statistics** LI: To accurately read and interpret data on pictograms. LI: To understand how to interpret data on bar charts and solve problems using this data. LI: To apply knowledge to number and worded problems. LI: To accurately read data on a line graph and	**Geometry** LI: To find missing angles on a straight line. LI: To find missing angles in a triangle. LI: To find missing angles around a point. LI: To investigate the properties of 2D shapes. LI: To investigate the properties of 3D shapes. LI: To identify co-ordinates of points on a 4-quadrant grid. **Statistics** LI: To gather data and present in a tally chart. LI: To create a bar chart using data from a tally chart. LI: To calculate the mean of a given set of data.	LI: To find percentages of amounts (5%, 1% and all other %s). LI: To order and compare fractions, decimals and percentages. LI: To complete a number sequence and write the rule for the sequence. LI: To calculate simple algebraic equations (e.g. 7k + a = and tell the children what k and a equals). **Measures** LI: To calculate the perimeter of compound shapes. LI: To calculate the area of rectangles and triangles. LI: To calculate the volume of a 3D shape. LI: To convert metric measures. LI: To solve measures problems.

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LI: To find equivalent fractions using multiplication facts. LI: To simplify fractions using common factors. LI: To express two fractions to have the same denominator. LI: To compare and order fractions. **Maths in Year 6 is streamed. Set 1 move their focus quicker to deepening and applying skills. Set 2 work at a slower pace to ensure consolidation of key number strategies.**	LI: To calculate the perimeter of a shape and solve problems. LI: To calculate the area of a rectangle. LI: To investigate finding the area of triangles. LI: To investigate finding the area of parallelograms. LI: To solve shape problems using area.	LI: To use knowledge of area to solve worded problems. LI: To calculate the volume of cubes. LI: To calculate the volume of cuboids. LI: To calculate measurements using scale factor.	interpret the information to solve problems. LI: To apply knowledge of data to a range of problems. LI: To read and interpret pie charts. LI: To use percentages to understand data presented in pie charts. **Measures – time** LI: To read and draw the time accurately on analogue clocks. LI: To convert between 12-hour and 24-hour times and solve simple problems. LI: To apply knowledge to number and worded problems. LI: To read a timetable accurately using 12- and 24-hour times and solve problems. LI: To calculate differences in time using a number line.		