| Maths Learning Ladders Year 5. | Times Tables: 4.3 <br> I can recall quickly all the multiplication and division facts for tables up to $12 \times 12$ and can use them confidently in larger calculations. | Addition 6.9 <br> I can add increasingly large numbers mentally. | Addition 7.1 <br> I can add large numbers in different contexts using vertical addition. | Addition 7.2 <br> I can use rounding to estimate and check answers to calculations. |
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| Addition: 7.3 <br> I can add a mix of whole numbers and decimals with different numbers of decimal places using vertical addition. | Subtraction 9.7 <br> I can subtract large numbers in different contexts using vertical subtraction. | Subtraction 9.8 <br> I can use rounding to check answers to calculations. | Subtraction 9.9 <br> I can subtract a mix of whole numbers and decimals with different numbers of decimal places using vertical subtraction. | Multiplication 11.2 <br> I can use a formal vertical method to multiply HTP, THHTO and whole numbers with up to 2 decimal places (e.g. money) by 0. |
| Multiplication 11.3 <br> I can use related facts to multiply multiples of 10 and 100 e.g. $2 \times 3=$ $620 \times 30=600$. | Multiplication 11.4 <br> I can multiply TOxTO using diagrams arrays and grids. | Multiplication 11.5 <br> I can multiply TOxTO using a grid. | Multiplication: 11.6 <br> I can multiply TOxTO using long multiplication. | Multiplication 11.7 <br> I can identify multiples and factors of a number and common factors of two numbers. |
| Division 13.8 <br> I can divide 4 digit and 4 digit numbers by one digit using short division. | Division: 13.9 <br> I can solve more complex problems involving division including with remainders and round the answer appropriately in context. | Division 14.1 <br> I can begin to represent a remainder as a fraction or decimal. | Fractions: 16.7 <br> I can recognise and convert improper fractions to mixed numbers. | Fractions: 16.8 <br> I can add and subtract fractions with the same denominators including recognising and converting improper fractions to mixed numbers. |
| Fractions: 16.9 <br> I can compare and order fractions where denominators are in the same fraction family. | Fractions: 17.1 <br> I can add and subtract fractions with denominators in the same fraction family. | Fractions: 17.2 <br> I can multiply proper fractions and mixed numbers by a whole number using diagrams and concrete apparatus. | Decimals: 20.1 <br> I can compare and order whole numbers and decimals with up to 2 decimal places. | Decimals: 20.2 <br> I can round decimals with 2 decimal places to the nearest whole number and to one decimal place. |
| Decimals 20.3 <br> I can recognise and use thousandths and relate them to tenths, hundredths and decimal places. | Decimals 20.4 <br> I can read, write order and compare numbers that have a mixture of 1,2 or 3 decimal places. | Percentage and Ratio: 22.1 <br> I can recognise and understand \% as part of 100 and write a \% as a fraction and a decimal. | Problem Solving: 25.4 <br> I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy | Problem Solving: $\mathbf{2 5 . 5}$ <br> I can solve addition and subtraction multi-step problems in context, deciding which operations to use and why. |


| Problem Solving: 25.6 <br> I can solve division problems interpreting remainders in a context and adjusting the answer appropriately. | Problem Solving: 25.7 <br> I can solve problems involving multiplication and division including scaling by simple fractions. | Problem Solving: 25.8 <br> I can solve multi step problems involving a combination of any of the 4 operations. | Problem Solving: 25.9 <br> I can use all 4 operations to solve equivalence statements (.g. 5x7 = $18+12)$ | Problem Solving: 26.1 <br> I can investigate a problem involving place value and properties of number and present my investigation in a clear and organised way. |
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| Properties of Number 27.5 <br> I can identify multiples and factors including finding all factor pairs of a number and common factors of two numbers. | Properties of Number 27.6 <br> I know and use the vocabulary of prime numbers, prime factors and composite non prime numbers. | Properties of Number 27.7 <br> I can work out if a number up to 100 is a prime number and have quick recall of all the prime numbers to 19. | Properties of Number: 27.8 <br> I can recognise and describe linear number sequences including those involving fractions and decimals and find the term to term rule. E.g. add half. | Properties of Number 27.9 <br> I can recognise squared and cubed numbers and use the correct notation. |
| Measures: 31.2 <br> I can convert between different units of measure using my understanding of times and divide by 10,100 and 1000. | Measures: 31.2 <br> I can use all 4 operations to solve problems involving length, mass, capacity and scaling. | Measures: 31.3 <br> I can estimate volume and capacity and explore these concepts using practical materials. | Measures: 31.4 <br> I can understand and use approximate equivalences between metric units and common imperial units (inches, pounds and pints.) | Time: 35.1 <br> I can solve problems which involve converting between units of time e.g. expressing the answer as days and weeks. |
| Time: 35.2 <br> I can solve problems involving time including reading simple timetables. | Perimeter and Area 36.5 <br> I can measure and calculate the perimeter of shapes that need to be divided into rectangles (composite rectilinear shapes) in cm and m . | Perimeter and Area 36.6 <br> I can measure and calculate the area of shapes that need to be divided into rectangles (composite and rectilinear shapes) in $\mathrm{cm}^{2}$ and $\mathrm{m}^{2}$ | Perimeter and Area 36.7 <br> I can estimate the area of irregular shapes. | Perimeter and Area 36.8 <br> I can calculate and compare the area of rectangles using in $\mathrm{cm}^{2}$ and $\mathrm{m}^{2}$ including from scale drawings. |
| Perimeter and Area 36.9 <br> I can find unknown lengths on rectilinear shapes using my understanding of perimeter and area. | Statistics 39.7 <br> I can complete, read and interpret information presented in tables and other graphical representations. | Statistics: 39.8 <br> I can decide which representations of data are most appropriate and explain why. | Statistics: 39.9 <br> I can interpret a pie chart. | Shape 43.1 <br> I can draw and measure given angles in degrees. |
| Shape 43.2 <br> I can identify regular and irregular shapes using my knowledge of length of sides and angles. | Shape: 43.3 <br> I can identify 3D shapes from 2D representations. | Shape: 43.4 <br> I can calculate missing angles on a straight line ( $\mathbf{1 8 0}$ or at a point (360) or within a right angle (90). | Shape: 43.5 <br> I can find missing lengths and angles in rectangles using my knowledge of related facts. | Shape: 43.6 <br> I can find missing lengths and angles in rectangles using my knowledge of related facts. |


| Position and Direction 45.9 I can identify, describe and draw the position of a shape on a grid after a reflection on a line parallel to the axis. | Position and Direction 46.1 I can identify, describe and draw the position of $s$ shape on a grid after a translation. | Place Value: 49.1 <br> I can read write, order and compare numbers to $1,000,000$ (1 million) and determine the value of each digit. | Place Value: 49.2 <br> I can round any number up to $1,000,000$ to the nearest 10,100 , 1000, 10,000 and 100,000. | Place Value: 49.3 <br> I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000 |
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| Place Value: 49.4 I can interpret negative numbers in context. |  |  |  |  |
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