St John Learning Ladder			Name:	Year:5
Times Tables	Addition	Subtraction	Properties of Number	Problem solving
11) I can recall quickly all the multiplication and division facts for tables up to 12 × 12 and can use them confidently in larger calculations.	17) I can add large numbers in different contexts using formal column addition.	16) I can subtract large numbers using formal column subtraction. Note: Exchanging should take place above the H, T and U columns.	5) I can identify multiples and factors Note: including finding all factor pairs of a number and common factors of two numbers.	22) I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
Multiplication	18) I can use rounding to estimate and check answers to calculations.	17) I can use rounding to check answers to calculations.	6) I know and use the vocabulary of prime numbers, prime factor and composite (non-prime) numbers.	23) I can solve addition and subtraction multi-step problems in context, explaining which operations to use and why.
12) I can use a formal vertical method to multiply HTU, THHTU and whole numbers with up to 2 decimal places by single digit numbers.	19) I can add whole numbers and decimals with different numbers of decimal places using column addition.	18) I can subtract whole numbers and decimals with different numbers of decimal places using column subtraction.	7) 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.	24) I can solve division problems interpreting remainders in a context and adjusting the answer appropriately. Note: Word problems when buying in bulk etc
	20) I can add numbers mentally using increasingly large numbers e.g. (12 462 + 2300 = 14 762)	20) I can subtract numbers mentally using increasingly large numbers (e.g. 12 462 - 2300 = 10 162)		
13) I can use related facts to multiply multiples of 10 and 100 e.g. 2 x 3 = 6 20 x 30 = 600	Fractions	Place Value	8) I can recognise and describe number sequences including those involving fractions and decimals and find the term to term rule. e.g. add half	25) I can solve problems involving multiplication and division including scaling by simple fractions.
14) I can multiply TU x TU using the grid method. X 10 2	16) I can recognise and convert improper fractions to mixed number fractions.	19) I can read write order and compare numbers to 1 000 000 (1 million) and determine the value of each digit		26) I can solve multi step problems involving a combination of any of the 4 operations.
15) I can multiply TU x TU using an expanded written strategy.	17) I can add and subtract fractions with the same denominators including recognising and converting improper fractions to mixed numbers.	20) I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.	9) I can recognise squared and cubed numbers and use the correct notation (symbols to represent these).	27) I can use all 4 operations to solve equivalence statements e.g. $5 \times \square = 18 + 12$
16) I can multiply TU × TU using long multiplication.	18) I can compare and order fractions where denominators are in the same fraction family.	21) I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000.	Decimals	28) I can investigate a problem involving place value and properties of number, and
			10) I can compare and order decimals with up to two decimal places.	present my investigation in a clear and organised way. Note: Opportunities for Nrich investigations in maths books.
			11) I can round decimals (with 2.d.p) to the nearest whole number or the nearest tenth.	
			12) I can recognise thousandths and relate them to tenths and hundredths.	
			13) I can read, write order and compare decimal numbers that have 1,2 or 3 decimal places.	

St John Learning Ladder			Name:	Class:5
Division	Fractions (continued)	Place Value (continued)	Measures	Perimeter and Area
8) I can divide 4 digit and 3 digit numbers by one digit using short division	19) I can add and subtract fractions with denominators in the same fraction family.	22) I can interpret negative numbers in a real life context.	20) I can convert between different units of measure using my understanding of times and divide by 10, 100 and 1000	5) I can measure and calculate the perimeter of shapes that need to be partitioned into rectangles (compound shapes) in cm and m.
9) I can solve complex problems involving division including with remainders and round the answer appropriately in context	20) I can multiply proper fractions and mixed numbers by a whole number using diagrams and objects to explain my reasoning.	Time	21) I can use all 4 operations to solve problems involving length, mass, capacity and scaling up or down.	6) I can measure and calculate the area of shapes that need to be partitioned into rectangles (compound shapes) in cm² and m²
10) I can begin to represent a remainder as a fraction or decimal. e.g. $76 \div 6 = 12 \text{ r}3 = 12 \text{ 3}/6 = 12 \frac{1}{2} = 12.5$ Note: Keep fractions to decimals relationships simple at this stage: $\frac{1}{2} = 0.5$, $\frac{1}{4} = 0.25$ and $\frac{3}{4} = 0.75$.	Shape	19) I can solve problems which involve converting between units of time. e.g. expressing the answer as days and weeks.	22) I can estimate volume and capacity and explore these concepts using practical materials.	7) I can estimate the area of irregular shapes.
Statistics	18) I can find missing lengths and angles in rectangles using my knowledge of related facts.	20) I can solve problems involving time including reading simple timetables or time charts.	23) I can understand and use approximate equivalences between metric units and common imperial units (Inches, pounds, pints)	8) I can calculate and compare the area of rectangles using cm² and m² including from scale drawings.
15) I can decide which representations of data are most appropriate and explain why.	19) I can calculate missing angles on a straight line (180°) or at a point (360°) or within a right angle (90°).			9) I can find unknown lengths on compound shapes using my understanding of perimeter and area.
16) I can complete, read and interpret information presented in tables and other graphical representations.	20) I can identify 3D shapes from 2D representations.		Position and Direction	Percentage and Ratio
17) I can solve comparison, sum and difference problems using information presented in line graphs	21) I can identify regular and irregular shapes using my knowledge of length of sides and angles.		9) I can identify, describe and draw the position of a shape on a grid after a translation.	1) I can recall and use equivalence between fractions, decimals and % to solve problems e.g. 10% of £5.00 or 50% of the team
	22) I can draw and measure given angles in degrees.		10) I can identify, describe and represent the position of a shape following a reflection or a translation. I can explain if the shape has changed or not.	2) I can recognise and understand % as part of 100 and write a % as a fraction and a decimal
	23) I can identify and compare acute, obtuse and reflex angles.			