	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	Place Value read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1000 000 round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems that involve all of the above read Roman numerals to 1000 (M) and recognise years written in Roman numerals		Addition and Subtraction add and subtract numbers mentally with increasingly large numbers add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scalings, (measurement)		 Multiplication and Division A multiply and divide numbers mentally drawing upon known facts multiply and divide whole numbers by 10, 100 and 1000 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division where larger numbers are used by decomposing them into their factors solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scalings, (measurement) 			 Fractions A Compare and order fractions whose denominators are all multiples of the same number recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, ²/₅ + ⁴/₅ = ⁶/₅ = 1¹/₅] identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths read and write decimal numbers as fractions [for example, 0.71 = ⁷¹/₁₀₀] add and subtract fractions with the same denominator and denominators that are multiples of the same number" multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates, (multiplication and division). 				
		Baseline Assessment			Place Value Assessment			Addition and Subtraction Assessment		Multiplication and Division A Assessment		Autumn term progress checks Paper 1 – Arithmetic Paper 2 - Reasoning

	1	2	3	4	5	6	7	8	9	10	11	12
Spring	multiply and divided facts multiply and divided facts multiply numbers using a formal writer for two-digit numbers using a formal written meremainders appropriately appropriately and the formal written meremainders appropriately appropriately and the formal written meremainders and use the notation for second and and an appropriately app	multiply and divide numbers mentally drawing upon known facts multiply and divide whole numbers by 10, 100 and 1000 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division where larger numbers are used by decomposing them into their factors solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation		Compare and ord denominators are same number recognise mixed improper fraction one form to the comathematical stamixed number [f. 1½] identify, name are fractions of a give represented visu and hundredths read and write defractions [for exame denominate that are multiple number" multiply proper four numbers by who supported by masolve problems in and division, inclusimple fractions are	ns and convert from other and write atements > 1 as a for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} =$ and write equivalent en fraction, rally, including tenths ecimal numbers as ample, $0.71 = \frac{71}{100}$] at fractions with the tor and denominators are of the same fractions and mixed ale numbers, aterials and diagrams involving multiplication uding scaling by	decimal places recognise and us hundredths and or round decimals we number and to o solve problems if multiply and divide by 10, 100 and 10 use all four operate example, length, including scaling, recognise the perelates to 'number as a fraction with solve problems we	ages Tand compare numbers with up to three Thousandths and relate them to tenths, lecimal equivalents Thit two decimal places to the nearest whole the decimal place Volving number up to three decimal places le whole numbers and those involving decimals Thou, (multiplication and division). This to solve problems involving measure [for mass, volume, money] using decimal notation, (measurement) The cent symbol (%) and understand that per cent ter of parts per hundred', and write percentages denominator 100, and as a decimal This transport is a symbol decimal The cent symbol (%) and understand that per cent The red parts per hundred', and write percentages The red parts per hundred'		composite rectiline centimetres and m • calculate and comp squares and rectan standard units, squ	etres pare the area of gles, including using are centimetres (cm²) (m²) and estimate the		· ·
	Fractions A Assessment				Multiplication and Division B Assessment		Fractions B Assessment		Decimals and percentages Assessment		Area and Perimeter Assessment	Spring term progress checks Paper 1 – Arithmetic Paper 2 - Reasoning

	1	2	3	4	5	6	7	8	9	10	11	12
Summer	 Shape know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (°) identify: angles at a point and one whole turn (total 360°); angles at a point on a straight line and ½ a turn (total 180°); other multiples of 90° identify 3-D shapes, including cubes and other cuboids, from 2-D representations use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on reasoning about equal sides and angles 			Position and Direction Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed		Pecimals read, write, order and compare numbers with up to three decimal places recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents round decimals with two decimal places to the nearest whole number and to one decimal place solve problems involving number up to three decimal places multiply and divide whole numbers and those involving decimals by 10, 100 and 1000, (multiplication and division). use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling, (measurement)			Negative Numbers interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and		estimate volume (e.g. using 1 cm³ blocks to build cubes and cuboids) and capacity (e.g. using water]
	Statistics Assessment			Shape Assessment		Summer term progress checks Paper 1 – Arithmetic Paper 2 - Reasoning	Position and Direction Assessment		Decimal Assessment	Negative numbers assessment	Converting units Assessment	Volume Assessment