

Pupil Name:

Year Group: Autumn Score:

Spring Score:

Summer Score

ORANGE END OF YEAR OBJECTIVES (49)

	Number and Place Value	Mastery
	<u>I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</u>	
	I can count forwards or backwards in steps 10, 100, 1000, 10,000, 100,000 for any given number up to 1,000,000	
	<u>I understand negative numbers and can count forwards and backwards through 0</u>	
	I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000	
	I can solve number problems and practical problems that involve all of the above	
	I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	
	Addition and Subtraction	
	<u>I can use the column method to add and subtract whole numbers with more than 4 digits.</u>	
	<u>I can add and subtract numbers mentally with increasingly large numbers</u>	
	I can use rounding to check answers to calculations	
	I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and why	
	Multiplication and Division	
	<u>I can identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers</u>	
	I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	
	I can establish whether a number up to 100 is prime and recall prime numbers up to 19	
	I can multiply numbers up to 4 digits by a 1 or 2 digit number using a formal written method, including long multiplication for two-digit numbers	
	I can multiply and divide numbers mentally, drawing upon known facts	
	I can \div numbers up to 4 digits by a 1-digit number using the formal written method of short division and interpret remainders for the context	
	I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000	
	I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	
	<u>I can solve problems involving \times and \div, including using knowledge of factors and multiples, squares and cubes</u>	
	I can solve problems involving $+$, $-$, \times and \div and a combination of these, including understanding the meaning of the equals sign	
	<u>I can solve problems involving \times and \div, including scaling by simple fractions and problems involving simple rates</u>	
	Fractions	
	<u>I can compare and order fractions whose denominators are all multiples of the same number</u>	
	I can identify, name and write equivalent fractions represented visually, including tenths and hundredths	
	I can recognise mixed numbers and improper fractions and convert from one form to the other [e.g. $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$]	
	I can add and subtract fractions with the same denominator, and denominators that are multiples of the same number	
	I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
	<u>I can read and write decimal numbers as fractions [for example, $0.71 = 71/100$]</u>	
	I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
	I can round decimals with 2 decimal places to the nearest whole number and to 1 decimal place	
	<u>I can read, write, order and compare numbers with up to 3 decimal places</u>	
	I can solve problems involving number up to 3 decimal places	
	I can recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction	
	<u>I can solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25</u>	
	Measurement	
	<u>I can convert between different units of metric measure [for example, km/m; cm/m; cm/mm; g/kg; l/ml]</u>	
	I can understand and use approximate equivalences between metric units and some imperial units e.g. inches, pounds and pints	
	<u>I can measure and calculate the perimeter of composite rectangular shapes in centimetres and metres</u>	
	<u>I can calculate and compare the area of rectangles (including squares) using cm^2 and m^2 and estimate the area of irregular shapes</u>	
	I can estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	
	I can solve problems involving converting between units of time	
	I can use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, incl. scaling	
	Properties of Shape	
	I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations	
	I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
	<u>I can draw given angles, and measure them in degrees ($^\circ$)</u>	
	I can identify: angles at a point and 1 whole turn (total 360°): angles at a point on a straight line and half a turn (total 180°): other multiples of 90°	
	I can use the properties of rectangles to deduce related facts and find missing lengths and angles	
	<u>I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles</u>	
	Position and Direction	
	I can 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.	
	Statistics	
	<u>I can complete, read and interpret information in tables, including timetables</u>	
	I can solve comparison, sum and difference problems using information presented in a line graph	