Harrietsham Church of England Primary School

Maths Framework – Year 5



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Autumn	Spring	Summer
Number: Place Value I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	Number: Multiplication and Division I can multiply and divide numbers mentally drawing upon known facts.	Number: Decimals I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.
I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000.	I can multiply numbers up to a four-digit by a one or two-digit number using a more formal written method, including long multiplication for two-digit	I can solve problems involving number up to three decimal places.
I can interpret negative numbers in context and can count forwards and backwards with positive and negative numbers through zero.	numbers. I can divide numbers up to four digits by a onedigit number using the formal written method of	I can use all for number operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including scaling.
I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.	short division and interpret remainders appropriately.	
Read Roman numerals up to 1,000 and recognise different years written in Roman numerals.	I can solve problems involving addition, subtraction, multiplication and division and a combination of these including understanding the meaning of the equals sign.	

Number: Addition and Subtraction I can add and subtract numbers with more than four digits, using formal written methods of columnar addition and subtraction.

I can use rounding to check the answer to a calculation and determine, in the context of the problem, levels of accuracy.

I can solve addition and subtraction multi-step problems in context, deciding which operations and methods to use.

I can add and subtract numbers mentally with increasingly large numbers.

Number: Fractions

I can compare and order fractions whose denominators are multiples of the same number.

I can identify, name and write equivalent fractions of a given fraction, represented visually (including tenths and hundredths).

I can recognise mixed numbers and improper fractions and can convert from one form to the other and write mathematical statements >1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 11/5).

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.

Geometry: Properties of Shapes

I can identify 3D shapes, including cubes and other cuboids, from 2D representations.

I can use the properties of rectangles to deduce related facts and to find missing lengths and angles.

I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

I know angles are measured in degrees and can estimate and compare acute, obtuse and reflex angles.

I can draw given angles and measure them in degrees

Number: Multiplication and Division	Number: Decimals	Measurement: Converting Units
I can identify multiples and factors, including	I can read, write, order and compare numbers with	I can convert between different units of metric
finding all factor pairs of a number and common	up to three decimal places.	measure (e.g km and m, cm and m, cm and mm, g
factors of two numbers.		and kg, ml and l).
I can understand and use the vocabulary of prime factors, prime and composite (non-prime) numbers. I can establish whether a number up to 100 is prime and can recall prime numbers up to 19. I can recognise and use square and cubed numbers and the notation for squared and cubed. I can solve problems involving multiplication and	I can read and write decimal numbers as fractions e.g. 0.71 is 71/100. I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. I can round decimals with two decimal places to the nearest whole number and to one decimal place.	I use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. I can solve problems involving converting between units of time.
division using their knowledge of factors, multiples, squares and cubes.		
Measurement: Perimeter and Area	Number: Percentages	Measurement: Volume
I can measure and calculate the perimeter of composite rectilinear figure in centimetres and metres.	I can recognise the percent symbol (%) and understand that percent relates to 'number of parts per 100.'	I can estimate volume (e.g using 1cm^3 blocks to build cuboids) and capacity (e.g using water).
I can calculate and compare the area of rectangles (including squares) using: standard units, square centimetres and square metres. I can estimate the area of irregular shapes.	I can solve problems which require knowing percentage and decimal equivalents of ½ ¼ 1/5 2/5 4/5 and those fractions with a denominator of a multiple of 10 or 25.	I can use all four operations to solve problems involving measure (for example: length, mass, volume and money) using decimal notation including scaling

Statistics I can solve comparison, sum and difference problems using information from a line graph	
I can complete, read and interpret information from tables including timetables.	