Woodhouse Primary School

Coverage of Maths National Curriculum objectives

2021-2022

Rationale: At Woodhouse Primary School we encourage our pupils to be confident, resilient mathematicians with a love of learning and no fear of 'grappling' with difficult concepts and those expressed in an unfamiliar way. In our school, children are scaffolded, extended and supported through rapid teacher intervention, use of equipment and choice of strategies e.g. jottings/mental/resources. As such teaching is both enabling and extending.

Year group: Year 4		Sc = Science PE = Physical Education T = Topic	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2	Notes
Place value	Count in multiples of 6, 7, 9, 25 and 1000								
	Find 1000 more or less than a given number								
	Count backwards through zero to include negative numbers								
	Recognise the place value of each digit in a four-digit number (THTO)								
	Order and compare numbers beyond 1000; identify, represent and estimate numbers using different representations								
	Round any number to the nearest 10, 100 or 1000								**Covered within money/measurement**
	Read Roman numbers to 100 (I to C) and know that over time the number system changed								
Add/Sub	Add and subtract numbers with up to 4 digits using formal written methods								
	Estimate the answer to a calculation and use the inverse to check answers Estimate and use inverse operations to check answers to a calculation								
	Solve addition and subtraction 2 step problems in contexts								
Mult/Div	**Recall and use multiplication/division facts for the 3, 4 and 8 times tables** Recall multiplication/division facts for times tables up to 12x12								
	Use place value and known/derived facts to multiply/divide mentally (including by x0/1, ÷1, U x U x U)								
	Recognise and use factor pairs and commutativity								
	Write and calculate mathematical statements for mult/div using times tables they know (including for TU x U) using mental and progressing to formal written methods Multiply two/three digit numbers by a one digit number using formal written layout								
	Solve problems, including missing number problems, for positive integer scaling problems and correspondence problems in which n objects are connected to m objects Solve problems including using the distributive law for TU x U, integer scaling problems and harder correspondence problems								
Fractions	**Recognise, find and write fractions of a discrete set of objects**								
	Recognise and show, using diagrams, equivalent fractions with small denominators Recognise and show, using diagrams, families of common equivalent fractions								
	Count up and down in hundredths; recognise that hundredths arise when dividing by 100								
	Add and subtract fractions with the same denominator (within one whole) Add and subtract fractions with the same denominator								
	Recognise and write decimal equivalents of any number of tenths or hundredths								
	Recognise and write decimal equivalents to ¼, ½ and ¾								
	Find the effect of dividing a 1 or 2 digit number by 10/100 identifying the digits in the answer								

	Round decimals with one decimal place to the nearest whole number							**Covered within money/measurement**
	Compare numbers with the same number of decimal places up to 2 dp							**Covered within money/measurement**
Measure	Convert between different units of measure (e.g. km to m, hours to minutes)							
	Measure and calculate the perimeter of a rectilinear figure in cm and m							
	Find the area of rectilinear shapes by counting squares							
	Add and subtract amounts of money to give change using both £ and p Estimate, compare and calculate different measures including money in £ and p							
	Tell and write the time from an analogue clock (inc Roman numerals) and 12/24 hours clocks **Estimate and read time accurately to the nearest minute** Read, write and convert time between analogue and digital 12/24 hour clocks							
	Read and compare time (seconds, minutes, hours); use vocab such as o'clock, am/pm, morning, afternoon, noon and midnight **Compare duration of events**							
	Solve problems involving converting from hours to minutes, minutes to seconds, years to months etc)							
Geometry	**Make 3D shapes using modelling materials, recognising them in different orientations and describing them**							
	Compare and classify geometric shapes (inc quad/triangles) based on their properties/sizes							
	Recognise angles as a property of shape or a description of a turn **Identify right angles and identify whether angles are greater than or less than a right angle** Identify acute/obtuse angles and compare/order angles up to 180˚ in size							
	Identify lines of symmetry in 2D shapes presented in different orientations							
	Complete a simple symmetric figure with respect to a specific line of symmetry							
	Describe positions on a 2D grid as coordinates in the first quadrant							
	Describe movements between positions as translations of left/right and up/down							
	Plot specified points and draw sides to complete a given polygon							
Stats	Interpret and present discrete and continuous data using appropriate graphs							
	Solve one step and two step questions using information presented in scaled bar charts, pictograms and tables Solve comparison, sum and difference problems using information presented in graphs							

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