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Federation of Golden Flatts and Lynnfield Primary Schools Maths Medium-Term Plan: Year 5

Autumn Term



	Place Value	Negative Numbers	Position & Direction	Addition & Subtraction	Multiplication & Division	Perimeter & Area	Assessment
	3 weeks	2 weeks	2 weeks	2 weeks	3 weeks	2 weeks	1 week
National Curriculum	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 1,000,000 Solve number problems and practical problems involving the above	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	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	Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 Multiply numbers up to four digits by a 1- or 2-digit number using a formal written method, including long multiplication for 2-digit numbers Divide up to four digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm2) and square metres (m2), and estimate the area of irregular shapes	Test to be made by Maths lead to match what has been taught – do not just use WR End of Term Tests Day 1 do arithmetic test Day 2 go over and unpick the arithmetic test with loads of discussion – this must be given proper time Days 3 do reasoning test Day 4 go over and unpick the reasoning test with loads of discussion – this must be given proper time
Small Steps	 Represent and know value of digits to 7-digit Partition numbers to 7-digit 1, 10, 100, 1000, 10,000, 10,000, 100,000 more 1, 10, 100, 1000, 10,000, 100,000 more Compare two numbers using <> = to 7-digit Order sets of numbers to 7-digit Round 4-digit numbers to nearest 10, 100, 1000 Round to nearest 10, 100, 1000 Round within 7-digit 	Understand through ordering negative numbers including number line Count through zero in ones and other multiples Increases and decreases through zero Find the difference	Read and plot coordinates in the first quadrant Translate a shape including coordinates Describe a translation including coordinates Lines of symmetry Reflections including coordinates	Column addition of 4-digit numbers no bridging then bridging including VF Column addition of 5-digit or more numbers with bridging including VF Column addition of mixed PV numbers with bridging including VF Column subtract of 4-digit numbers no exchanging then exchanging including VF Column subtract of 5-digit or more numbers with exchanging including VF Column subtract of mixed PV numbers with exchanging including VF Column subtract of mixed PV numbers with exchanging including VF Estimate/approximate to check Inverse to check	Multiply by 10, 100, 1000 Divide by 10, 100, 1000 Mixed multiply and divide by 10,100, 1000 Multiply 4 x 1 short Multiply 2 x 2 long Multiply 3 x 2 long Multiply 4 x 2 long Multiply 4 x 2 long Divide 4 by 1 using short no remainders at all including within Divide 4 by 1 using short remainder only at end Divide 4 by 1 using short remainder throughout	Perimeter of rectangles Perimeter of compound rectilinear shapes Perimeter of polygons Area of rectangles Area of compound shapes	

National Curriculus

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Spring Term





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	Volume	Fractions	Statistics	Assessment			
	1 week	7 weeks	2 weeks	1 week			
National Curriculum	Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity Estimate volume and capacity [for example, using water]	 Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes 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 1 Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number Compare and order fractions whose denominators are all multiples of the same number 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 increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number (Y4) 	 Complete, read and interpret information in tables, including timetables Solve comparison, sum and difference problems using information presented in a line graph 	Test to be made by Maths lead to match what has been taught – do not just use WR End of Term Tests Day 1 do arithmetic test Day 2 go over and unpick the arithmetic test with loads of discussion – this must be given proper time Days 3 do reasoning test Day 4 go over and unpick the reasoning test with loads of discussion – this must be given proper time			
	Count volume using cubes Compare volumes Estimate volume Stimate capacity	Multiples then common multiples factors Common factors Prime numbers Square numbers Cube numbers Find fractions equivalent to a unit fraction – use as fractions reminder session Find fractions equivalent to a non-unit fraction Convert improper to mixed Convert improper to mixed Convert mixed to improper Compare and order fractions less than one Compare and order fractions more than one Add and subtract fractions with same denominator (mixed lesson as Y4 revision) Add fractions with diff denom within 1 Add fractions with diff denom beyond 1 Add a fraction to a mixed number Add 2 mixed numbers Subtract fractions with diff denom Subtract fractions by integers Multiply a mixed number by an integer Fractions of amounts – 2 lessons	 Read and interpret two way tables Read and interpret timetables Draw line graphs Read and interpret line graphs 				

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Summer Term





	Decimals & Percentages	Measurement	Properties of Shape	Time	Assessment
	5 weeks	2 weeks	3 weeks	1 week	1 week
National Curriculum	Read, write, order and compare numbers with up to 3 decimal places Read and write decimal numbers as fractions Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths 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 Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Solve problems involving numbers up to 3 decimal places Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place 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	Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre] Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	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 1 whole turn (total 360°) 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°) 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 Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals Solve problems involving converting between units of time Convert units of time Calculate with timetables Roman Numerals to 1000 Calculate time durations	Test to be made by Maths lead to match what has been taught – do not just use WR End of Term Tests Day I do arithmetic test Day 2 go over and unpick the arithmetic test with loads of discussion – this must be given proper time Days 3 do reasoning test Day 4 go over and unpick the reasoning test with loads of discussion – this must be given proper time
Small Steps	Decimals to 2dp Equivalent fractions and decimals tenths Equivalent fractions and decimals hundredths Thousandths as fractions and decimals Order and compare decimals same amount of PV places Order and compare decimals any amount of PV places Round decimals to wholes and tenths Understand percentages & Percentages as fractions Percentages as decimals FDP Equivalence Multiply decimals by 10, 100, 1000 Divide decimals by 10, 100, 1000 Add decimals including with different PV Subtract Decimals with different PV	Kilograms and kilometres Millimetres and millilitres Converting units Units of time Converting with imperial units	Degrees and classify angles Estimate and measure angles up to 180 Draw lines accurately – teacher assess 22 Calculate angles within right angles Calculate angles on a straight line Calculate angles around a point Lengths and angles in shapes Regular and irregular polygons – teacher assess 21 3d shapes		