



Federation of Golden Flatts and Lynnfield Primary Schools

Maths Medium-Term Plan: Year 4

Autumn Term



	Place Value	Position & Direction	Addition & Subtraction	Statistics	Length & Perimeter	Time	Assessment
	3 weeks	1 week	4 weeks	1 week	2 weeks	3 weeks	1 week
National Curriculum	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations Count in multiples of 6, 7, 9, 25 and 1,000 Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) Find 1,000 more or less than a given number Order and compare numbers beyond 1,000 Round any number to the nearest 10, 100 or 1,000 	<ul style="list-style-type: none"> Describe position using coordinates Plot coordinates Draw 2-D shapes on a grid Translate on a grid Describe translation on a grid 	<ul style="list-style-type: none"> Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why Estimate and use inverse operations to check answers to a calculation 	<ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	<ul style="list-style-type: none"> Convert between different units of measure [for example, kilometre to metre; hour to minute] Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres 	<ul style="list-style-type: none"> Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days Read, write and convert time between analogue and digital 12- and 24-hour clocks 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Represent and know value of digits to THO Partition THO Numberlines 1, 10, 100, 1000 more less Compare two numbers using < > = Order sets of numbers Round numbers to nearest 10, 100 and 1000 	<ul style="list-style-type: none"> Describe positions using coordinates Plot coordinates Translate on a grid Describe a translation 	<ul style="list-style-type: none"> Addition concrete phase – calculation policy Addition pictorial phase – calculation policy Abstract – no bridging Abstract – 1 piece of bridging Abstract – 2 pieces of bridging Abstract – 2 pieces of bridging – include VF subtraction concrete phase – calculation policy subtraction pictorial phase – calculation policy Abstract – no bridging Abstract – 1 piece of regrouping Abstract – 2 pieces of regrouping Abstract – 2 pieces of regrouping – include VF 	<ul style="list-style-type: none"> Interpret bar charts Comparison questions Sum questions Difference questions Interpret line charts 	<ul style="list-style-type: none"> Equivalent lengths: km and m Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes – no missing values Perimeter of rectilinear shapes - missing values Perimeter of polygons 	<ul style="list-style-type: none"> Read Roman numerals to 100 (I to C) Years, months, weeks and days Hours minutes and seconds Convert between analogue and digital Convert to 24 hour – this will 2 lessons Convert from 24hr – this will need 2 lessons 	

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Spring Term



	Multiplication & Division	Area	Fractions	Assessment
	4 weeks	1 week	5 weeks	1 week
National Curriculum	<ul style="list-style-type: none"> Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5) Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout Use place value, known and derived facts to multiply and divide mentally 	<ul style="list-style-type: none"> Find the area of rectilinear shapes by counting squares 	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3) Recognise and show, using diagrams, families of common equivalent fractions Add and subtract fractions with the same denominator 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Multiply by 10 Multiply by 100 Related facts multiplication divide by 10 divide by 100 Related facts division Concrete phase from calculation policy abstract phase from calculation policy Short multiplication 2 x 1 abstract Short multiplication 3 x 1 abstract Concrete & pictorial from calculation policy Division 2 by 1 Division 3 by 1 	<ul style="list-style-type: none"> What is area and Count squares? Make shapes Compare areas 	<ul style="list-style-type: none"> Understand the whole Understand mixed numbers Compare and order mixed numbers Understand improper fractions Convert mixed numbers in to improper fractions Convert improper fractions into mixed numbers Equivalent fraction Add two fractions Add a fraction and mixed number Subtract two fractions Subtract fractions from wholes Subtract fractions from mixed numbers 	

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Maths Medium-Term Plan: Year 4

Summer Term



	Decimals	Measurement (Money)	Properties of Shape	Assessment
	6 weeks	3 weeks	2 weeks	1 week
National Curriculum	<ul style="list-style-type: none"> Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3) Recognise and write decimal equivalents of any number of tenths or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Recognise and show, using diagrams, families of common equivalent fractions Recognise and write decimal equivalents of any number of tenths or hundredths Solve simple measure and money problems involving fractions and decimals to 2 decimal places Compare numbers with the same number of decimal places up to 2 decimal places Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ 	<ul style="list-style-type: none"> Estimate, compare and calculate different measures, including money in pounds and pence 	<ul style="list-style-type: none"> Recognise angles as a property of shape or a description of a turn (Y3) Identify acute and obtuse angles and compare and order angles up to two right angles by size Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations <p>Complete a simple symmetric figure with respect to a specific line of symmetry</p>	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Tenths as fractions Tenths as decimals Tenths on PV chart Tenths on numberlines Hundredths as fractions Hundredth as decimals Hundredth on PV chart Hundredth on numberlines Divide one digit number by 10 Divide two digit number by 10 Divide one digit number by 100 Divide two digit number by 100 Make a whole with tenths Make a whole with hundredths Partition decimals Compare decimals Order decimals Round decimals with 1dp to nearest whole 	<ul style="list-style-type: none"> Money as decimals Convert between pounds and pence Compare amounts of money Estimate with money Calculate with money – use calculation policy methods 	<ul style="list-style-type: none"> Angles as turns and identify angles Compare and order angles Triangles Quadrilaterals Lines of symmetry <p>Complete symmetric figures</p>	