

Lingfield Education Trust Maths Medium-Term Plan: Year 4 Autumn Term

	Place Value	Position & Direction	Addition & Subtraction	Statistics	Length & Perimeter	Assessment	Time
	3 weeks	1 week	4 weeks	1 week	2 weeks	1 week	3 weeks
National Curriculum	 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 	 Describe position using coordinates Plot coordinates Draw 2-D shapes on a grid Translate on a grid Describe translation on a grid 	 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 	 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 	 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 	 Monday: arithmetic paper Tuesday: reasoning paper Wednesday: fluency checks Thursday: unpick arithmetic paper Friday: unpick reasoning paper 	 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 seconds, years to months, weeks to days Read, write and convert time between analogue and digital 12- and 24- hour clocks
Small Steps	 Represent numbers to THTO Partition THTO Value of digits to THTO Numberlines 1, 10, 100, 1000 more less PS Lesson: PV and value of digits (real-life word) Compare two numbers using <> = Order sets of numbers PS Lesson: compare & order (visual) Round numbers to nearest 10 Round numbers to nearest 100 Round numbers to nearest 100 Round nombers to nearest 100 Round nombers to nearest 100 Round nombers to nearest 100 Round noterest 10, 100, 100 within others (e.g. 424 to nearest 10) PS Lesson: rounding Assessment Pause & Stretch 	 Describe positions using coordinates Plot coordinates Translate on a grid Describe a translation Assessment, Pause & Stretch 	 Addition concrete phase (no regroup and regroup) – calculation policy Addition pictorial phase (no regroup & regroup) – calculation policy Abstract – no regrouping Abstract – 2 pieces of regrouping Abstract – 2 pieces of regrouping Abstract – mixed PS Lesson: columnar addition (more than one possibility) subtraction concrete phase (no exchange and exchange) – calculation policy subtraction pictorial phase (no exchange & exchange & exchange, – calculation policy Abstract – 1 piece of exchanging Abstract – 2 pieces of exchanging Abstract – 2 pieces of exchanging Abstract – mixed PS Lesson: columnar 	 Interpret bar charts Comparison questions Sum questions Difference questions Interpret line charts Assessment, Pause & Stretch 	 Equivalent lengths: km and m Perimeter on a grid Perimeter of a rectangle PS Lesson: perimeter of rectangle (more than one possibility) Perimeter of rectilinear shapes - no missing values Perimeter of rectilinear shapes - missing values PS Lesson: perimeter of rectilinear shapes - missing values PS Lesson: perimeter of acctual backwards) Perimeter of polygons Assessment Pause & Stretch PS Skills Lesson: working systematically 		 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 PS Lesson: time (real-life word) Assessment Pause & Stretch PS Skills Lesson: conjecturing & generalising

- subtraction (multi-step)
- Assessment
- Pause & Stretch
- PS Skills Lesson: trial &
- improvement

Lingfield Education Trust Maths Medium-Term Plan: Year 4 Spring Term



	Multiplication &	Area	Fractions	Assessment	Decimals	
	Division					
	5 weeks	1 week	4 weeks	1 week	2 weeks	
National Curriculum	 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (YS) 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 	 Find the area of rectilinear shapes by counting squares 	 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 	 Monday: arithmetic paper Tuesday: reasoning paper Wednesday: fluency checks Thursday: unpick arithmetic paper Friday: unpick reasoning paper 	 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 	
Small Steps	 Multiply by 10 Multiply by 100 Related /scaled facts multiplication divide by 10 Related / scaled facts multiplication divide by 100 Related / scaled facts division PS Lesson: powers of 10 (working backwards) Concrete phase from calculation policy (no regrouping and regrouping) pictorial phase from calculation policy (no regrouping and regrouping) Abstract: Expanded Short multiplication 3 x 1(top right model of calculation policy) Abstract: Short multiplication 3 x 1 no regrouping (bottom right model of calculation policy) Abstract: Short multiplication 3 x 1 & 1 piece of regrouping (bottom right model of calculation policy) Abstract: Short multiplication 3 x 1 & 2 pieces of regrouping (bottom right model of calculation policy) Abstract: Short multiplication 3 x 1 & 2 pieces of regrouping (bottom right model of calculation policy) Abstract: Short multiplication 3 x 1 mixed practice of lessons 11 to 13 PS Lesson: short multiplication policy Abstract: Division 3 by 1 (no regroup or remainder) from calculation policy Abstract: Division 3 by 1 (remainder but no regrouping within) from calculation policy Abstract: Division 3 by 1 (remainder and regrouping within) from calculation policy Abstract: Division 3 by 1 mixed from calculation policy Abstract: Division 3 by 1 mixed from calculation policy 	 What is area and Count squares? Make shapes Compare areas PS Lesson: area (open-ended) Assessment, Pause & Stretch PS Skills Lesson: working collaboratively 	 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 PS Lesson: convert between mixed numbers and improper and vice-versa (visual) Equivalent fraction PS Lesson: equivalent fractions (logic) Add to fraction and mixed number PS Lesson: adding involving fractions (real-life word) Subtract two fractions Subtract fractions from wholes Subtract fractions from mixed numbers PS lesson: subtracting involving fractions (multi-step) Assessment Pause & Stretch 		 Tenths as fractions Tenths on PV chart Tenths on numberlines PS Lesson: tenths (more than one possibility) Hundredths as fractions Hundredth on PV chart Hundredth on numberlines PS Lesson: hundredths (more than one possibility) 	

Lingfield Education Trust Maths Medium-Term Plan: Year 4 Summer Term



	Decimals (continued)	Money	Properties of Shape	Assessment	Properties of Shape	Summer Springboard
	4 weeks	2 weeks	1 week	1 weeks	2 weeks	1 week
National Curriculum	 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 number of decimal places Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents to 1/4, 1/2 and 3/4 	Estimate, compare and calculate different measures, including money in pounds and pence	 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 orientation Complete a simple symmetric figure with respect to a specific line of symmetry 	 Monday: arithmetic paper Tuesday: reasoning paper Wednesday: fluency checks Thursday: unpick arithmetic paper Friday: unpick reasoning paper 	 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 orientation Complete a simple symmetric figure with respect to a specific line of symmetry 	 Revisit key place value, operations and fractions skills before summer break be given proper time
Small Steps	 Divide one digit number by 10 Divide two digit number by 10 Divide two digit number by 100 Divide two digit number by 100 PS Lesson: dividing by 10 and 100 (multi-step) PS Skills Lesson: finding starting points Make a whole with tenths Make a whole with hundredths Partition decimals PS Lesson: partition decimals (visual) Compare decimals PS Lesson: compare & order decimals (real-life word) Round decimals with 1dp to nearest whole PS Lesson: round decimals (multi-step) Assessment Pause & Stretch PS Skills Lesson: visualising 	 Money as decimals Convert between pounds and pence PS Lesson: converting between pounds and pence (more than one possibility) Compare amounts of money Estimate with money – use calculate with money – use calculation policy methods PS Lesson: money problems real-life (multi-step) Assessment Pause & Stretch 	 Angles as turns and identify angles Compare and order angles Triangles Quadrilaterals Lines of symmetry Complete symmetric figures PS Lesson: shape (logic) Assessment Pause & Stretch 		 Angles as turns and identify angles Compare and order angles Triangles Quadrilaterals Lines of symmetry Complete symmetric figures PS Lesson: shape (logic) Assessment Pause & Stretch 	