Lingfield Education Trust
Maths Medium-Term Plan: Year 3
Autumn Term

	Place Value	Addition & Subtraction	Statistics	Length & Perimeter	Assessment	Mass & Capacity
	3 weeks	4 weeks	1 week	3 weeks	1 week	3 weeks
National Curriculum	• Identify, represent and estimate numbers using different representations • Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) • Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • Count from zero in multiples of 4, 8, 50 and 100 • Read and write numbers up to 1,000 in numerals and word • Compare and order numbers up to 1,000 s	• Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens • a 3-digit number and hundreds • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers	• Interpret and present data using bar charts, pictograms and tables • Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Measure the perimeter of simple 2-D shapes	• Monday: arithmetic paper • Tuesday: reasoning paper • Wednesday: fluency checks • Thursday: unpick arithmetic paper • Friday: unpick reasoning paper	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Small Steps	• Represent numbers to HTO • Partition numbers to HTO • Value of digits to HTO • Number Line to HTO • PS Lesson: value of digits (more than one possibility) • 1 more, 10 more, 100 more • 1 less, 10 less, 100 less • PS Lesson: 1, 10, 100 more/less (real-life word) • Compare numbers to HTO • Order numbers to HTO • PS Lesson: compare and order (logic) • Assessment • Pause & Stretch	• Concrete & Pictorial addition (top section of calculation policy) • Abstract – expanded method no new tens or hundreds (top right of calculation policy) • Abstract – expanded with new tens and hundreds (middle right of calculation policy) • Abstract – compact method no regrouping (bottom right of calculation policy) • Abstract – compact method one piece of regrouping (bottom right of calculation policy) • Abstract – compact method >1 piece of regrouping (bottom right of calculation policy) • Mixed practice of lessons 5 to 7 (bottom right of calculation policy) • PS Lesson: addition and (Y3) (subtraction real-life word) • Concrete & pictorial subtraction no exchange and exchange (calculation policy) • Abstract – expanded method no exchange (top right of calculation policy) • Abstract – expanded method regrouping (middle right of calculation policy) • Abstract – compact method no exchange (bottom right of calculation policy) • Abstract – compact method 1 piece exchange (bottom right of calculation policy) • Abstract – compact method >1 piece exchange (bottom right of calculation policy) • Mixed practice of lessons 14 to 16 (bottom right of calculation policy) • PS Lesson: addition and subtraction (more than one possibility) • Approximation to check • Inverse operations to check • Assessment, Pause & Stretch • PS Skills Lesson: trial and improvement	• Interpret & Draw Pictograms • Interpret & draw bar charts • PS Lesson: statistics (working backwards) • Two-way tables • Assessment, Pause & Stretch	• Measure in m and cm • measure in cm and mm • Equivalent lengths • Compare lengths • PS Lesson: lengths • Add lengths – use methods learnt from calculation policy • Subtract lengths - use methods learnt from calculation policy • PS Lesson: adding/subtracting lengths • What is perimeter & measure perimeter • Calculate perimeter – rectilinear • Calculate perimeter – compound rectilinear • PS Lesson: perimeter • Assessment • Pause & Stretch • PS Skills Lesson: working systematically		• Using scales • Measure mass • Equivalence in mass • Compare mass • PS Lesson: mass (opened-ended) • Add and subtract mass • PS Lesson: adding & subtracting mass (more than one possibility) • Measure capacity & volume • Equivalence capacity & volume • Compare capacity & volume • PS Lesson: capacity & Volume • Add and subtract capacity & volume • PS Lesson: add and subtract capacity & volume (open-ended) • Assessment • Pause & Stretch

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Maths Medium-Term Plan: Year 3
Spring Term

	Multiplication & Division	Fractions	Assessment	Money
	6 weeks	4 weeks	1 week	2 weeks
National Curriculum	• Recall and use multiplication facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	• Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • Compare and order unit fractions, and fractions with the same denominators • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Recognise and show, using diagrams, equivalent fractions with small denominators • Add and subtract fractions with the same denominator within one whole • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	• Monday: arithmetic paper • Tuesday: reasoning paper • Wednesday: fluency checks • Thursday: unpick arithmetic paper • Friday: unpick reasoning paper	• Add and subtract amounts of money to give change, using both £ and p in practical contexts
Small Steps	• Multiples of 10 • Scaled facts x10, x5, x2 • Scaled facts x4 • Scaled facts x8 • Scaled facts x 3 • Scaled facts ÷10, ÷5, ÷2 • Scaled facts ÷4 • Scaled facts ÷ 8 • Scaled facts ÷ 3 • Mixed x and ÷ scaled facts • PS Lesson: multiples of 10 / related calculations (rules and patterns) • TO x O concrete stage from calculation policy • TO x O pictorial stage from calculation policy • TO x O abstract stage 1 from calculation policy • TO x O abstract stage 2 from calculation policy • TO x O abstract stage 2 from calculation policy • TO x O abstract stage 2 from calculation policy • PS Lesson: 2 x 1 multiplication (rules and patterns) • Linking multiplication and division • TO ÷ O concrete stage • TO ÷ O pictorial stage no remainders – number line include VF • TO ÷ O pictorial stage with remainders – number line include VF • TO ÷ O abstract stage with remainders – number line include VF • TO ÷ O abstract stage with remainders – number line include VF • PS Lesson: division TO ÷ O (working backwards) • Scaling (bar models) • PS Lesson: bar models (real-life word) • Assessment • Pause & Stretch • PS Skills Lesson: working collaboratively	• What are fractions - practical • What are fractions • Unit fractions • Non-unit fractions • Understand the whole • Compare and order non-unit fractions • PS Lesson: whole and fractions (visual) • Equivalence practical lesson • Equivalent Fractions as bar models • PS Lesson: equivalent fractions (real-life word) • Add fractions – 2 days • Subtract fractions -2 days • PS Lesson: add and subtract fractions (real-life word) • Unit fractions of amounts • Non-unit fractions of amounts • Non-unit fractions of amounts • PS Lesson: fractions of amounts (real-life word) • Assessment • Pause & Stretch • PS Skills Lesson: finding starting points		• Pounds • Pounds and pence • Convert pounds and pence • PS Lesson: pounds and pence (visual) • Add money – use methods learned from calculation policy • Subtract money and change – use methods learned from calculation policy • PS Lesson: real life money (real-life word) • Assessment • Pause & Stretch • PS Skills Lesson: visualising

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Maths Medium-Term Plan: Year 3
Summer Term

	Time	Properties of Shape	Assessment	Summer Springboard
	4 weeks	3 weeks	1 week	1 week
National Curriculum	• Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks • Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight • Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events	• Recognise angles as a property of shape or a description of a turn • Identify right angles, recognise that two right angles make a half turn, three make three-quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle • Measure the perimeter of simple 2-D shapes • Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	• Monday: arithmetic paper • Tuesday: reasoning paper • Wednesday: fluency checks • Thursday: unpick arithmetic paper • Friday: unpick reasoning paper	• Revisit key place value, operations and fractions skills before summer break be given proper time
Small Steps	• Roman Numerals to 12 include simple problem in lesson • Time to 5 minutes • Time to 5 minutes • Time to the minute • Time to the minute • Read digital clocks • Read digital clocks • am and pm • am and pm • PS Lesson: reading time (visual) • Calculate durations from given starts and ends • Calculate end times from given start and duration • Calculate start times from given ends and durations • PS Lesson: time duration problems (real-life word) • Years, months and days • Days and hours • Minutes and seconds • PS Lesson: units of time • Assessment • Pause & Stretch	• Angles or not • Right angles • Classify right, acute and obtuse angles (use geostrips for input) • Draw right, acute and obtuse angles • Horizontal and vertical • Parallel and perpendicular • Name and classify 2d shapes • Draw 2d shapes including measurements • Name and classify 3d shapes • Make 3d shapes • PS Lesson: shapes (rules & patterns) • Assessment • Pause & Stretch • PS Skills Lesson: conjecturing & generalising		