

Federation of Golden Flatts and Lynnfield Primary Schools

Maths Medium-Term Plan: Year 3

Autumn Term



| | Place Value | Addition & Subtraction | Statistics | Length & Perimeter | Mass & Capacity | Assessment |
|---------------------|---|---|--|---|---|--|
| | 3 weeks | 3 weeks | 2 weeks | 3 weeks | 3 weeks | 1 week |
| National Curriculum | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Add and subtract numbers mentally, including: <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Measure the perimeter of simple 2-D shapes | <ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) | <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 numbers and know value of digits to TO Represent numbers and know value of digits to HTO Partition numbers to TO Partition numbers to HTO Number Line to HTO 1 more, 10 more, 100 more 1 less, 10 less, 100 less Compare numbers to HTO Order numbers to HTO | <ul style="list-style-type: none"> Concrete addition – top section of calculation policy Pictorial addition – top section of calculation policy Abstract – expanded method no bridging – calculation policy Abstract – expanded with bridging – calculation policy Abstract – expanded with bridging include varied fluency – calculation policy Concrete subtraction – top section of calculation policy Pictorial subtraction – top section of calculation policy Abstract – expanded method no regrouping – calculation policy Abstract – expanded method regrouping – calculation policy Abstract – expanded method regrouping include varied fluency - policy Approximation to check Inverse operations to check | <ul style="list-style-type: none"> Interpret Pictograms Draw pictograms Interpret bar charts Draw bar charts Two-way tables | <ul style="list-style-type: none"> Measure in m and cm measure in cm and mm Equivalent lengths Compare lengths Add lengths – use methods learnt from calculation policy Subtract lengths - use methods learnt from calculation policy What is perimeter & measure perimeter Calculate perimeter – rectilinear Calculate perimeter – compound rectilinear | <ul style="list-style-type: none"> Using scales Measure mass Equivalence in mass Compare mass Add and subtract mass Measure capacity & volume Equivalence capacity & volume Compare capacity & volume Add and subtract capacity & volume | |

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Maths Medium-Term Plan: Year 3

Spring Term



| | Multiplication & Division | Fractions | Assessment |
|---------------------|--|---|---|
| | 6 weeks | 4 weeks | 1 week |
| National Curriculum | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <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"> Multiples of 10 Scaled facts x10, x5, x2 Scaled facts x4 Scaled facts x8 Scaled facts x3 Scaled facts ÷10, ÷5, ÷2 Scaled facts ÷4 Scaled facts ÷8 Scaled facts ÷3 Mixed x and ÷ scaled facts TO x O concrete stage from calculation policy include varied fluency TO x O pictorial stage from calculation policy include varied fluency TO x O abstract stage 1 from calculation policy include varied fluency TO x O abstract stage 2 from calculation policy include varied fluency 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 Scaling (bar models) | <ul style="list-style-type: none"> What are fractions - practical What are fractions Unit fractions Non-unit fractions Understand the whole Compare and order non-unit fractions Equivalence practical lesson Equivalent Fractions as bar models Add fractions – 2 days Subtract fractions -2 days Unit fractions of amounts Non-unit fractions of amounts – 2 days | |

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Maths Medium-Term Plan: Year 3

Summer Term



| | Money | Time | Properties of Shape | Assessment |
|---------------------|--|---|---|--|
| | 3 weeks | 4 weeks | 4 weeks | 1 week |
| National Curriculum | <ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <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"> Pounds Pounds and pence Convert pounds and pence Add money – use methods learned from calculation policy Subtract money and change – use methods learned from calculation policy | <ul style="list-style-type: none"> Roman Numerals to 12 include simple problem in lesson Assessment, Pause & Stretch lesson (19) Time to 5 minutes Time to the minute Read digital clocks am and pm Hours and minutes - Start and end times Hours and minutes – durations Years, months and days Days and hours Minutes and seconds | <ul style="list-style-type: none"> Sorting 2d and 3d Edges and vertices on 2d Name 2d shapes & properties Symmetry on 2d shapes Problem Solving on symmetry Sort 2d shapes based on properties Problem Solving 2D Faces on 3d shapes Naming 3d shapes Problem Solving 3D Edges and vertices Comparing shapes (2d and 3d) Making patterns with shapes | |