



Maths Medium Term Overview – Spring Year 3

Year 3 – Spring term	
Week & Focus	NC objectives to be covered. NB – Non-statutory guidance and small step changes in repeated objectives are in bold.
1 – Number – Number and Place value	▪ Count from 0 in multiples of 4 ▪ Read and write numbers up to 1000 in numerals and in words – consolidation (problem solving focus). ▪ Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) – consolidation (problem solving focus). ▪ Identify, represent and estimate 3 digit numbers using different representations – focus on estimating, including on number lines. ▪ Compare and order numbers up to 1000 - consolidation (problem solving focus). ▪ Find 10 or 100 more or less than a given number - consolidation (problem solving focus). ▪ Solve number problems and practical problems involving these ideas.
2 – Addition	▪ Add numbers mentally, including: a three-digit number and ones and tens (focus on addition) – include strategies for adding near multiples of 10 – e.g. 19, 29. Refer to pages 23-24 mental strategies booklet, bridging multiples of 10 and compensating. ▪ Add numbers with up to three digits, using formal written methods of columnar addition – progress to using standard written method with 3 digit numbers, using build it, draw it, write it, looking at calculations involving up to 1 exchange only. Refer to pages 21-24 addition as appropriate.



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	▪ Estimate the answer to a calculation. ▪ Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction – including 2 step problems.
3 - Subtraction	▪ Subtract numbers mentally, including: a three-digit number and ones and tens – include strategies for subtracting near multiples of 10 – e.g. 19, 29. Refer to pages 23-24 mental strategies booklet, bridging multiples of 10 and compensating. ▪ Subtract numbers with up to three digits, using formal written methods of columnar subtraction – progress to using standard written method with 3 digit numbers, using build it, draw it, write it, looking at calculations involving up to 1 exchange only. Refer to pages 28-32 subtraction as appropriate. ▪ Estimate the answer to a calculation. ▪ Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction – focus on single step problems
4 - Geometry & Statistics	3D SHAPE FOCUS ▪ Make 3-D shapes using modelling materials (consolidate names and properties); recognise 3-D shapes in different orientations and describe them. ▪ Identify pairs of perpendicular and parallel lines (on the faces of 3D shapes). ▪ Identify right angles (on the faces of 3D shapes). ▪ Sort 3D shapes into Carroll and Venn diagrams.



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5 - 6 Multiplication	▪ Consolidate multiplication facts for 2, 3, 4, 5, 10 multiplication tables. ▪ Recall and use multiplication facts for the 8 times table – making links to the 2 and 4 times tables and doubling. ▪ Write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods – link use of partitioning arrays to use of grid method (progress to expanded column as appropriate) – Refer to build it, draw it pgs 12-13 multiplication booklet. ▪ Solve problems, including missing number problems, involving multiplication and introduce positive integer scaling problems.
6 - 7 Division	▪ Consolidate division facts for 2, 3, 4, 5, 10 multiplication tables. ▪ Recall and use division facts for the 8 times table – link to 2 and 4 times tables and halving. ▪ Write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers divide by one-digit numbers, using mental methods and progressing to formal written methods – group multiples of 10 more efficiently using base 10 (progressing on to building on a place value grid) Refer to bottom of pg 12 – pg 13 division booklet. If appropriate, progress onto grouping 2-digit numbers on a place value grid (without exchange) – Refer to pg 14 division booklet ▪ Solve problems, including missing number problems, involving division and introduce positive integer



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	scaling problems.
-8 Fractions	▪ <u>Count up and down in tenths</u>; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 (emphasis on the counting in steps). ▪ Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators – counting in fractions on a number line. ▪ Recognise and show, using diagrams, equivalent fractions with small denominators. ▪ Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators – consolidate through problem solving. ▪ Fraction problems related to these.
9 – Measurement - time	▪ Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour clocks. ▪ Estimate and read time with increasing accuracy to the nearest minute – make link between analogue and digital clocks. ▪ Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. ▪ Solve time problems related to these.
10 – Measurement -	▪ Measure, compare, add and subtract: mass (kg/g) – to include comparing and using mixed units and simple equivalents of mixed units and to include simple scaling of integers.



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mass	Problems related to the above objectives.
11 - Statistics	- Interpret and present data using bar charts. - Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts.
ADDITIONAL WEEKS FOR ASSESSMENT, REVISITING, CONSOLIDATION & THEMED WORK	