Maths Medium Term Plan – Year 3 - Autumn

Weeks	Sequence and Theme	National Curriculum Links	Learning Questions (Small Steps)	Key Vocabulary
1-3	Number Place Value	• 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 • Read and write numbers up to 1,000 in numerals and words • Compare and order numbers up to 1,000	1. Can I represent numbers to 100? 2. Can I partition numbers to 100? 3. Can I use a number line to 100? 4. Can I recognise hundreds? 5. Can I represent numbers to 1,000? 6. Can I partition numbers to 1,000? 7. Can I do flexible partitioning of numbers to 1,000? 8. Can I look at the structure of a number by considering how many hundreds, tens and ones it is made up of? 9. Can I find 1, 10 or 100 more or less? 10. Can I use a number line to 1,000? 11. Can I estimate on a number line to 1,000? 12. Can I compare numbers to 1,000? 13. Can I order numbers to 1,000? 14. Can I count in 50s?	*Numbers to one thousand* *Numbers to one hundred* *Hundreds* *Partition, recombine* *Hundred more/less* *None* *Count (on/up/to/from/down)* *Before, after* *More, less, many,* *Few, fewer, least, fewest, smallest, greater, lesser* *Equal to, the same as* *Odd, even* *Pair* *Units, ones, tens* *Ten more/less* *Digit, Numeral* *Figure(s)* *Compare* *Size* *Value* *Between, Halfway between* *Above, below*
4-8	Number Addition and Subtraction	• 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	1. Can I apply number bonds within 10? 2. Can I add and subtract 1s? 3. Can I add and subtract 10s? 4. Can I add and subtract 100s? 5. Can I spot the pattern? 6. Can I add 1s across a 10? 7. Can I add 10s across a 100? 8. Can I subtract 1s across a 10? 9. Can I subtract 10s across a 100? 10. Can I make connections? Can I develop number sense through explicitly exploring the connections between calculations? 11. Can I add two numbers (no exchange)? 12. Can I subtract two numbers (no exchange)? 13. Can I add two numbers (across a 10)? 14. Can I add two numbers (across a 100)? 15. Can I subtract two numbers (across a 10)? 16. Can I subtract two numbers (across a 100)? 17. Can I add 2-digit and 3-digit numbers? 18. Can I subtract a 2-digit number from a 3-digit number? 19. Can I find complements to 100? 20. Can I estimate answers? 21. Can I use inverse operations? 22. Can I make decisions about what operation and what method is appropriate to solve a problem?	*Column addition and subtraction* *Number bonds, number line* *Add, more, plus, make, sum, total, altogether* *Inverse* *Double* *Half, halve* *Equals, is the same as (including equals sign)* *Difference between* *How many more to make…?* *How many more is…than…?* *How much more is…?* *Subtract, take away, minus* *How many fewer is…than…?* *How much less is…?* *How many left?*

9-12	<u>Number</u> Multiplication and Division	• 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 • Show that multiplication of two numbers can be done in any order (commutative) and division on one number by another cannot (Y2) • Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward (Y2) • Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	1. Can I recognise equal groups? 2. Can I use arrays? 3. Can I recognise multiples of 2? 4. Can I recognise multiples of 5 and 10? 5. Can I use sharing and grouping? 6. Can I multiply by 3? 7. Can I divide by 3? 8. Can I recognise the 3 times-table? 9. Can I multiply by 4? 10. Can I divide by 4? 11. Can I recognise the 4 times-table? 12. Can I multiply by 8? 13. Can I divide by 8? 14. Can I recognise the 8 times-table? 15. Can I recognise the 2, 4 and 8 times-tables?	*Product* *Multiples of four, eight, fifty and one hundred* *Scale up* *Odd, even* *Count in twos, threes, fives* *Count in tens (forwards from/backwards from)* *How many times?* *Lots of, groups of* *Once, twice, three times, five times* *Multiple of, times, multiply, multiply by* *Repeated addition* *Array, row, column* *Double, halve* *Share, share equally* *Group in pairs, threes, etc.* *Equal groups of* *Divide, divided by, left, left over*
13-14	*Consolidate Autumn 1 learning through recap, revision and real life experiences.* ** Teacher's discretion to start Spring Topic 1 in Week 13/14*			