Purbrook Infant School
Addition and Subtraction Medium Term Plan

Year Group: 2
Addition and Subtraction

End of year expectations:

Addition and subtraction:

- solve problems with addition and subtraction:
- using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- applying their increasing knowledge of mental and written methods
- recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
- add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
  - a two-digit number and ones
  - a two-digit number and tens
  - two two-digit numbers
  - adding three one-digit numbers
- show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
- recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems..

Autumn	Spring	Summer
Addition and subtraction: • Solve problems with addition and subtraction • use a number line to support mental strategies for addition – jumping in steps of ten and one. • Use knowledge of number pairs and partitioning to bridge through tens numbers when adding / subtracting • Use and apply known and quickly recalled facts to solve addition and subtraction problems • Practice recalling and using addition facts to ten / twenty • Use practical resources (counting apparatus / diennes) to model addition / subtraction. • Explore the relationship between addition and subtraction – begin to use the inverse operation as a checking strategy. • Begin to use known addition and subtraction facts to 20 to generate new known facts to 100. • Show that addition can be done in any order and subtraction cannot	**Addition and subtraction:** • Add/subtract multiples of ten mentally by applying knowledge of addition and subtraction facts to 10 / 20. • Continue to refine addition and subtraction strategies, using mental skills and strategies (see progression in calculation document) • Confidently use a number line to add and subtract two digit numbers, using jumps of ten and one or multiples of ten and one, and bridging through ten. • Practise addition and subtraction skills in a range of contexts, problems and investigations. • Continue to use the inverse operation as a checking strategy. • Add three one-digit numbers	**Addition and subtraction:** • Solve a range of addition and subtraction problems, choosing a suitable strategy based on the numbers involved (mental methods, number line jottings) • Confidently apply known and quickly recalled facts to addition and subtraction calculations • Add and subtract numbers using concrete objects, pictorial representations and mental methods, including a two-digit number and ones, a two digit number and tens, two two-digit numbers and adding three one-digit numbers. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Confidently solve problems using addition and subtraction. • Recognise and use inverse relationships – use this as a checking strategy where appropriate and to solve missing number problems.