Numeracy   Year 3   Long Term Plan

Autumn 1		
	Strands	**Weekly summary**
Autumn Term 1	Mental addition and subtraction **(MAS)**	Use number bonds to mentally solve addition and subtraction problems.
	Number and place value **(NPV)**; Mental addition and subtraction **(MAS)**	• Compare and order numbers • Count on and back in 10s and 1s • Add and subtract 2-digit numbers, use the inverse to check answers.
	Mental multiplication and division **(MMD)**	Times tables and their associated division facts.
	Measurement **(MEA)**; Geometry: properties of shapes **(GPS)**	• Know and understand the calendar, including days, weeks, months, years • Tell the time to the nearest 5 minutes on analogue and digital clocks • Know the properties of 3D shapes
	Number and place value **(NPV)**; Mental addition and subtraction **(MAS)**	• Compare, order and understand place value of numbers • Identify, represent and estimate numbers • Subtract from 2- and 3-digit numbers • Using prediction to estimate calculations
	Strands	**Weekly summary**
Autumn Term 2	Mental multiplication and division **(MMD)**; Fractions, ratio and proportion **(FRP)**	• Double and halve numbers using partitioning • Understand fractions and fractions of numbers
	Mental addition and subtraction **(MAS)**; Measurement **(MEA)**	• Use money to add and subtract and record using the correct notation and place value • Add and subtract numbers using partitioning • Add three numbers by partitioning and recombining
	Measurement **(MEA)**	• Choose an appropriate instrument to measure a length and use a ruler to estimate, measure and draw to the nearest centimetre • Know 1 litre = 1000 ml • Estimate and measure capacity in millilitres
	Number and place value **(NPV)**; Mental addition and subtraction **(MAS)**	• Place numbers on a number line • Round numbers to nearest 100 • Use counting up to do mental subtractions with answers between 10 and 20, 10 and 30, and either side of 100
	Mental addition and subtraction **(MAS)**; Mental multiplication and division **(MMD)**	• Revise times-tables learned and derive division facts • Perform division with the possibility of remainders • Choose a mental strategy to solve additions and subtractions • Solve word problems

	Strands	Weekly summary
Spring Term 1	Number and place value **(NPV)**	• Rehearse place value in numbers, order them on a number line and find a number in between • Compare number sentences; solve additions and subtractions using place value • Multiply and divide by 10 (whole number answers) • Count in steps of 10, 50 and 100
	Mental addition and subtraction **(MAS)**; Mental multiplication and division **(MMD)**	• Add pairs of numbers • Recognise and sort multiples • Revise times tables and associated division facts
	Fractions, ratio and proportion **(FRP)**	• Identify unit fractions • Realise how many of each make a whole • Begin to find equivalent fractions • Find unit fractions of amounts
	Geometry: properties of shapes **(GPS)**; Geometry: position and direction **(GPD)**; Measurement **(MEA)**	• Recognise right angles and know they are 90º • Understand angles are measured in degrees (º) • Name and list simple properties of 2D shapes • Begin to understand and use the term perimeter to mean the length/distance around the edge (border) of a 2D shape • Begin to calculate using a ruler • Know a right angle is a quarter turn 360º is a full turn
	Number and place value **(NPV)**; Mental addition and subtraction **(MAS)**	• Place numbers on empty number lines • Round numbers to the nearest ten and to the nearest hundred • Use counting up as a strategy to perform mental subtraction • Subtract using money • Use counting up as a strategy to perform mental subtraction of amounts of money

	Strands	Weekly summary
Spring Term 2	Number and place value **(NPV)**; Written addition and subtraction **(WAS)**	• Understand place-value in numbers • Separate 3-digit numbers into hundreds, tens, and ones • add numbers using vertical written addition (expanded)
	Mental addition and subtraction **(MAS)**; Written addition and subtraction **(WAS)**	• Add numbers mentally • Begin to move tens and hundreds moving towards formal written addition • Begin to explore different strategies to solve addition problems • Investigate patterns in numbers when adding them • Choose own method to solve addition problems
	Measurement **(MEA)**	• Tell the time using both analogue and digital faces • Solve a range of worded problems involving time
	Mental addition and subtraction **(MAS)**; Number and place value **(NPV)**	• Order 3-digit numbers and find numbers between • solve subtractions using counting up (Frog) • Use counting up and counting back as strategies to perform mental subtractions • Choose to solve a given subtraction by counting up or counting back
	Mental multiplication and division **(MMD)**; Number and place value **(NPV)**	• Double and halve numbers by partitioning • Solve word problems involving doubling and halving • Begin to explore multiplication strategies • Start to use known number facts to solve division problems • See the relation between multiplication and division

Summer 1		
	Strands	**Weekly summary**
Summer Term 1	Mental addition and subtraction **(MAS)**; Fractions, ratio and proportion **(FRP)**	- Develop mental addition strategies - Add and subtract multiples of ten by counting on and back in tens and using number facts - Compare, order, add and subtract fractions with the same denominator - Begin to recognise equivalences of ½ and other fractions
	Written multiplication and division **(WMD)**; Mental multiplication and division **(MMD)**	- Use function machines to multiply by 2, 3, 4, 5 and 8 and see the inverse - Use known facts to multiply multiples of 10 by 2, 3, 4 and 5
	Mental multiplication and division **(MMD)**; Written multiplication and division **(WMD)**	- Divide without remainders, just beyond the 12th multiple - Division with remainders - Explore multiplication - Begin to estimate products
	Statistics **(STA)**; Measurement **(MEA)**	- Draw and interpret bar graphs and pictograms where one square/symbol represents two units - Draw tally charts - Compare and measure weights in multiples of 100g - Know how many grams are in a kilogram - Estimate and weigh objects to the nearest 100g - Draw and interpret bar graphs where one square represents one hundred units
	Mental addition and subtraction **(MAS)**; Written addition and subtraction **(WAS)**	- Add numbers using mental strategies - Add numbers using mental strategies or by using a range of written strategies
	Strands	**Weekly summary**
Summer Term 2	Written addition and subtraction **(WAS)**; Mental addition and subtraction **(MAS)**	- Subtract numbers using counting up - Solve word problems choosing an appropriate method
	Written addition and subtraction **(WAS)**; Mental addition and subtraction **(MAS)**; Measurement **(MEA)**	- Add numbers using a range of written methods - Solve problems involving measures - Solve subtractions of numbers using counting up on a line - Choose an appropriate strategy to solve addition or subtraction using a range of mental and addition methods
	Measurement **(MEA)**; Geometry: properties of shapes **(GPS)**	- Identify horizontal, vertical, parallel, perpendicular and diagonal lines in 2D shapes - Identify symmetry in 2D shapes - Measure the perimeter of 2D shapes, including the use of counting and of measuring using a ruler - Tell the time on analogue and digital clocks (begin to recognise am and pm and 24 hour times). - Begin to tell time 5/10/20 minutes later
	Written multiplication and division **(WMD)**; Fractions, ratio and proportion **(FRP)**; Decimals, percentages and their equivalence to fractions **(DPE)**	- Develop understanding of multiplication, estimate products - Explore strategies to solve division problems, with and without remainders - Solve word problems, first deciding whether they need multiplication or division to solve them - Recognise tenths, count in tenths, find tenths of one digit numbers - Exploring multiples of 10 and multiply numbers by 10
	Written addition and subtraction **(WAS)**; Mental addition and subtraction **(MAS)**; Written multiplication and division **(WMD)**	- Revise written strategies for addition and subtraction - Find change using counting up - Check subtractions using addition - Solve division problems using knowledge of multiplication facts