



Maths Knowledge Organiser
Year 1

Autumn (14 weeks)	Spring (11 weeks)	Summer (13 weeks)
Number - 3 weeks	Number - 2 weeks	Number - 2 weeks
Count up to 20	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	Write and understand numbers up to 100
Put all the numbers from 0 to 20 in the right order	Put numbers to 100 in the right order	Understand what the word equals means
Understand that numbers stay the same even if objects are moved around	Order and compare numbers to 100	Read and write all the numbers from 0 to 20 and beyond in words
Compare and order numbers to 20 and beyond	Know the multiples of 2	Find patterns in numbers (including odd and even)
Recognise and represent numbers up to 20 using pictures and objects e.g. dienes or groups of tens and ones.	Understand what more or less means when counting in 1s	Answer questions by sorting and recording
	Know the multiples of 10	
Addition and Subtraction - 3 weeks	Understand what more or less means when counting in 10s	Understand what the words equals, more than, less than, most, least, mean
Know number bonds for numbers to at least 5	Know the multiples of 5	Addition and Subtraction – 2 weeks
Know number bonds for the number 10		Add multiples of 10 to one-digit numbers
Add one-digit numbers to 20	Addition and Subtraction - 2 weeks	Add multiples of 10 to two-digit numbers
Subtract one-digit numbers to 20	Add by reading and writing number sentences using exchanging and regrouping strategies	Subtract multiples of 10 from two-digit numbers
Know number bonds for the number 20	Subtract by reading and writing number sentences using exchanging and regrouping strategies	Solve one step problems that involve addition and subtraction using objects or pictures
Add one-digit numbers to two-digit numbers to 20	Subtract one-digit numbers to two-digit numbers to 20	Multiplication and Division - 3 weeks
Multiplication and Division - 3 weeks	Use my knowledge of addition and subtraction to solve missing number problems e.g. $7 = \underline{\quad} + 5$	Combine groups of 5
Know the doubles of all numbers to at least 10	Multiplication and Division - 2 weeks	Share numbers into groups of 5
Know the doubles of all numbers to at least 20	Combine groups of 2	Solve one step problems that involve multiplication and division using objects or pictures
Know the halves of numbers to at least 20	Share numbers into groups of 2	Record multiplication as repeated addition.
Measurement - 3 weeks	Combine groups of 10	Fractions - 2 weeks
Measure and begin to record lengths and heights - know what metres are	Share numbers into groups of 10	Recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity
Compare, describe and solve practical problems for lengths and heights - for example, long/short, longer/shorter, tall/short, double/half	Fractions - 1 week	Measurement – 3 weeks
Understand what time is - hours, minutes, seconds	Recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity	Measure and begin to record capacity and volume - know what litres are
Recognise and use language relating to dates, including days of the week (name and order the days of the week), weeks, months and years	Measurement – 3 weeks	Compare, describe and solve practical problems for capacity - for example, full/empty, more than, less than, half, half full, quarter
Geometry - 2 weeks	Estimate	Know the value of notes and coins

Recognise and name common 2D shapes (triangle, square, rectangle, circle)		Measure and begin to record mass and weight - know what kilograms are		Read the time in hours and half hours	
Describe 2D shapes using the language sides, corners and equal.		Compare, describe and solve practical problems for mass and weight - for example, heavy/light, heavier than, lighter than		Draw the hands on a clock face to show o'clock and half past times.	
Make and continue patterns using shapes		Sequence events in chronological order and use the language after, next, first, today, yesterday		Geometry - 1 week	
		Compare, describe and solve practical problems for time - quicker, slower, earlier, later		Describe position, direction (below, above, next to, left, right) and movement, including whole, half, quarter and three-quarter turns	
		Geometry - 1 week			
		Recognise and name common 3D shapes (cube, cuboid, cylinder, sphere, cone)			
		Describe 3D shapes			
		Find and describe number and shape patterns.			
AFL starters to include:					
- Put all the numbers from 0 to 20 in the right order - Compare and order numbers to 20 and beyond - Know number bonds for the number 10 - Know the doubles of all numbers to at least 20 - Know the doubles of all numbers to at least 20 - Revisit addition and subtraction - Name and order days of the week/months of the year - Recognise, name and describe common 2D shapes - Make and continue patterns using shapes - Compare and describe lengths and heights		- Count to and across 100 - Put numbers to 100 in the right order - Order and compare numbers to 100 - Revisit multiplication and addition - Use my knowledge of addition and subtraction to solve missing number problems e.g. $7 = \underline{\quad} + 5$ - Recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity - Recognise, name and describe common 3D shapes Mental arithmetic - Sequence events in chronological order - Compare and describe mass and weight		- Number bonds up to 10 and for 20 - Write and understand numbers up to 100 - Counting (1's, 2's, 5's and 10's) Mental arithmetic - Telling the time to o'clock and half past - Compare and describe capacity and volume - Revisit addition, subtraction, multiplication and addition - Recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity	