



Maths Knowledge Organiser – Year 2

Autumn (14 weeks)	Spring (11 weeks)	Summer (13 weeks) Flexible in terms of time and arrangement. Teachers to decide depending on pupil needs
Number (Unit 1) – 3 weeks	Number – (during measure topic)	Fractions – 2 weeks
Read and write numbers to at least 100 in numerals and in words.	Identify and estimate numbers using different representations e.g. number lines and scales. (Not Covered in INSPIRE – to be taught through measure topic and also covered in Maths meetings)	Recognise, find, name and write fractions for $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a shape, length or set of objects.
Recognise the place and value of each digit in 2 digit numbers.	Mass – 1 week	Find and write simple fraction of numbers e.g. $\frac{1}{2}$ of 6 = 3.
Compare and order numbers up to at least 100 (use <, > and =)	Use grams and kilograms to estimate and measure mass.	Compare fractions e.g. $\frac{2}{4} = \frac{1}{2}$
Count in 10's from any number.	Compare and order mass. (use <, > and =)	Shapes and patterns – 1 week
Addition and Subtraction (Unit 2 and 3) – 3 weeks	Solve (+, -, x and ÷) problems involving mass.	Identify and describe properties of 2d shapes (number of sides, line of symmetry in a vertical line)
Recall addition and subtraction facts to 20 (Not Covered in INSPIRE – Cover in Maths meetings)	Volume– 1 week	Identify and describe the properties of 3d shapes (number of edges, vertices and faces)
Add and subtract numbers using objects and pictorial representations e.g. tens and ones, bar model. (2 digit number and ones, two digit number and tens, two two digit numbers)	Use millilitres and litres to estimate and measure volume/capacity.	Identify 2d shapes on the surface of 3d shapes e.g. a circle on a cylinder.
To add 3 single digit numbers mentally e.g. $3 + 6 + 7 =$ (Not Covered in INSPIRE – Cover in Maths meetings)	Compare and order volume/capacity. (use <, > and =)	Multiplication and Division – 1 week
Solve word problems involving addition and subtraction.	Solve (+, -, x and ÷) problems involving volume/capacity.	Recall and use the multiplication and division facts for the 5 times table.
	To measure temperature using thermometers.	Count in steps of 3 and recall multiplication and division facts
Multiplication and Division – 4 weeks	Mental calculations– 3 weeks	Position and Direction – 1 week

Count in steps of 2, 3 and 5 from 0.	Use knowledge of number bonds to add and subtract mentally.	Use mathematical vocabulary to describe position, direction and movement. (half turns, quarter turns, clockwise, anti-clockwise)
Recall and use the multiplication and division facts for the 2 and 10 times tables.	Recognise subtraction as the inverse of addition and use this to solve missing number problems.	SATS revision
To recognise odd and even numbers. (Not Covered in INSPIRE – Cover in Maths meetings)	Money– 3 weeks	Recap of previous terms’ learning and opportunities for SATs revision
		Arithmetic style questions, including those presented like equations (19-5 = 10 + __)
		Solve a series of word problems incorporating the 4 operation (presented in differing formats)
Solve problems involving multiplication and division using objects and pictorial representations.	To count pounds and pence.	Number – 2 weeks
Know that division is the inverse of multiplication.	To recognise and use the symbols for pounds and pence e.g. 59p or £0.59	Read and write numbers to 1000 in numerals and in words.
Multiplication and Division– 2 weeks	Find different combinations of coins that equal the same amount.	Recognise the place and value of each digit in 3 digit numbers.
Solve multiplication and division problems using the bar model.	Solve (+, -, x and ÷) problems involving money.	Compare and order numbers up to 1000 (use <, > and =)
Length– 1 weeks	Graphs– 1 week	
Use centimetres and metres to estimate and measure length and height.	Read, interpret and construct pictograms, tally charts, block diagrams and simple tables and ask and answer simple question.	
Compare and order lengths. (use <, > and =)	Time– 1 week	
Solve (+, -, x and ÷) problems involving length.	To tell and write the time to five minute intervals, including quarter past/to the hour.	
Shape– 3 days	Know the numbers of minutes in an hour and number of hours in a day.	
Identify and describe properties of 2d shapes (number of sides, line of symmetry in a vertical line)		
Ongoing skills/facts to be covered in Maths meetings, AFL starters and homework		
• Number bonds to 20 (addition and subtraction). Derive and use related facts up to 100. • 2, 5 and 10 times tables • Counting in steps of 2, 3 and 5 • Mental arithmetic		

- Time (5 minute intervals)
- 2d and 3d shape naming and describing
- Estimating and identifying numbers on number lines and scales.

Ideas understood 0-3 N/A (<i><5% of Y2 Skills embedded</i>) 3-13 Emerging (<i>up to 30% of Y2 Skills embedded</i>) 13-32 Developing (<i>31%-65% of Y2 skills embedded</i>) 33-43 Securing (<i>66-100% of Y2 skills embedded</i>) Mastering = Securing + teacher judgment	Autumn Total: Orange highlighted	Spring Total: Orange + green highlighted	Summer Total: Orange, green + yellow highlighted
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