	Maths Knowledge Organiser		
Busbridge Infant School	Summer	Year 1	**Strands covered:**

What Prior Knowledge should students have;

- Count reliably with numbers from 1 to 20
- with the numbers 1-20, say which number is one more or one less than a given number;
- using quantities and objects, add and subtract two single-digit numbers and count on or back to find the answer
- solve problems including doubling, halving and sharing
- use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems
- explore characteristics of everyday objects and shapes and use mathematical language to describe them

Key Vocabulary	Definition
Capacity	Capacity is the amount something can hold.
Mass	Mass is the amount of matter or substance that makes up an object. Mass and weight often get used interchangeable however mass always stays the same, while weight changes with changes in gravity.
Volume	Volume describes how much the container is holding. They use the terms full, nearly full, half full, nearly empty and empty to describe volume.
Estimate	Estimating means roughly calculating or judging a number or value

What Skills will students learn (Disciplinary Knowledge)

- How to estimate and measure capacities.
- How to practise counting sets of more than 20.
- How to count back on or back in 2s, 5s and 10s.
- How to solve problems involving money.
- How to solve problems about mass.
- How to make connections between arrays, number patterns and counting in 2s.
- How to share objects into equal groups.
- How to estimate and measure lengths and heights using a ruler.
- How to find doubles, halves and quarters of numbers and shapes.

What key knowledge will be taught (Substantive Knowledge)

- To use vocabulary related to volume and capacity.
- To read and write numbers from 1 to 20 in numerals and words.
- To know doubles of all numbers from 1 to 10.
- To recall addition and subtraction facts to 20 and use them to work out other facts.
- To use position and direction words.
- To recognise and make whole, half, quarter and three-quarter turns.
- To count in multiples of 2, 5 and 10.
- To know addition and subtraction facts to 20.
- To name 2D and 3D shapes.

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	Summer	Year 1	**Strands covered:** Number – PV Measure Money Fractions Number – A/S Number – M/D Geometry

Calculation Guidance