	Maths Knowledge Organiser		
	Summer	Year 2	Strands covered: Number – PV Measure Money Fractions Number – A/S Number – M/D Geometry

What Prior Knowledge should students have?

- add and subtract one-digit and two-digit numbers to 20, including zero;
- read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
- recognise, find and name a half as one of two equal parts of an object, shape or quantity;
- recognise, find and name a quarter as one of four equal parts of an object, shape or quantity
- compare, describe and solve practical problems for: capacity and volume

What Skills will students learn (Disciplinary Knowledge)

- How to add and subtract two two-digit numbers.
- How to solve problems involving fractions
- How to find fractions of a set of objects
- How to use mathematical vocabulary to describe position, direction and movement.
- How to solve problems which involve comparing, measuring and ordering widths, mass, capacity and volume.
- How to tell and write the time to five minutes
- How to solve problems and reason mathematically
- How to solve addition and subtraction problems using mental and written methods.
- How to make and use a block diagram to ask and answer questions about information gathered.

What key knowledge will be taught (Substantive Knowledge)

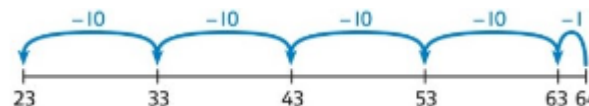
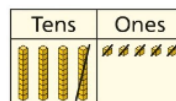
- To compare fractions
- To recall and use multiplication and division facts for the 2 and 5 times table
- To know the mathematical vocabulary to describe rotation as a turn for quarter, half and three-quarter turns
- To compare and order numbers using the signs <, > and =.
- To know the number of minutes in an hour and the number of hours in a day.
- To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables

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.
Multiples	A multiple is a number that can be divided by another number evenly without leaving a remainder. Multiples are basically the answers from any times table question, e.g. with the equation $3 \times 4 = 12$, 12 is a multiple of both 3 and 4.
Fraction	A fraction represents a part of a whole, written using numerator and denominator.

Calculation guidance



$$\begin{array}{r}
 \text{T} \quad \text{O} \\
 3 \cancel{4} \quad 15 \\
 - 2 \quad 7 \\
 \hline
 \hline
 \end{array}$$

$$45 - 16 = 30$$

	Maths Knowledge Organiser		
	Summer	Year 2	Strands covered: Number – PV Measure Money Fractions Number – A/S Number – M/D Geometry