SFET South Farnham Educational Trust	Maths Knowledge Organiser		
	Autumn	**Year 2**	**Strands covered:** Number – PV Measure Money Fractions Number – A/S Number – M/D Geometry

What Prior Knowledge should students have?

- Read and write numbers from 1 to 20 in numerals and words.
- Add and subtract one-digit and two-digit numbers to 20, including zero.
- Count in multiples of twos, fives and tens
- Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times

Key Vocabulary	Definition
Vertices	A vertex is a point where two or more lines meet. The plural of vertex is vertices.
Sides	The line that connects two points of a shape.
Inverse operation	Pairs of mathematical manipulations in which one operation undoes the action of the other—for example, addition and subtraction, multiplication and division.
Clockwise	Moving in the direction of the hands on a clock.
Anti-clockwise	Moving in the opposite direction if the hands on a clock.

What Skills will students learn (Disciplinary Knowledge)

- How to compare numbers using < or > up to 50.
- How to solve problems involving place value knowledge.
- How to solve problems involving multiplication and division.
- How to use inverse operations to check an answer.
- How to solve missing number problems.
- How to measure and compare lengths.
- How to compare and sort common 2D shapes using mathematical vocabulary.

What key knowledge will be taught (Substantive Knowledge)

- To read and write numbers to 50.
- To identify value of digits in a 2-digit number up to 50.
- To recall and use addition and subtraction facts to 20, including related facts.
- To add and subtract a 1-digit number to/from a multiple of 10.
- To identify and describe the properties of 2d shapes.
- To describe direction using mathematical language.
- To calculate multiplication and division facts for the 2-, 5- and 10-times table.
- To recognise and calculate half, quarter and three quarters of shapes and amounts.
- To tell and write the time to quarter to and past

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Calculation guidance