



Year 3 Sticky Knowledge

The sticky knowledge is the essential elements and 'basics' of Maths that is crucial for children's mathematical learning and progression. Of course, all areas of Maths are important and valuable but a focus on the 'basics' can help to advance and secure their learning across this subject.

Number Facts:

Knowledge of number facts and a fluency in using them is a vital part of Maths for each year group. Rapid recall of number facts can provide the basic knowledge required for most aspects of primary mathematics, including mental and written calculations, fractions, decimals and percentages and problem solving. Number facts learned in Maths can also be transferred to many other subjects across the curriculum and in 'real life' situations.

At Church Vale Primary we **strongly** believe that knowing and using number facts can help support children's understanding and progression in Maths.

The Non negotiables for **Year 3** are as follows:

- Read, write and order numbers (using $<$, $>$ and $=$ symbol) to 1000.
- Count on and back in multiples of 50, 100 and in tenths.
- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.
- Quick recall of multiplication and division facts for 3x, 4x and 8x tables
- Find 10 or 100 more or less than a given number
- Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
- Find doubles and halves of 2-digit numbers
- Tell the time from an analogue clock with increasing accuracy to the nearest minute.
- Add and subtract fractions with the same denominator within one whole
- Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn.

Year 3 Vocabulary



Number – number and place value

<u>Number</u>	<u>Place Value</u>
Eights	100 more
Fifties	100 less
Hundreds	Approximate
Factor of	Approximately
Roman Numerals	Round up
	Round down
	Round,
	Nearest,
	Round to the nearest ten,

Number – addition and subtraction

Hundreds boundary

Number – multiplication and division

Factor
Product
Remainder

Number – fractions

Tenths

Measurement

Century
Calendar
Earliest
Latest
Am
Pm
12 – hour clock time
24 – hour clock time

Geometry – properties of shapes / position and direction

Perimeter Pentagonal Hexagonal Octagonal Quadrilateral Right Angle / Right Angled Parallel / Perpendicular	Horizontal Vertical Diagonal North, South, East, West (N, S, E, W) Compass point Angle ... is a greater/smaller angle than Acute Obtuse
Statistics	
Chart Bar Chart Frequency Table Carroll Diagram Venn Diagram Axis Axes Diagram	
General	
Greatest Value Least Value Statement	