



Mathematics at St George's C of E Primary School - End Points

	Declarative Knowledge	Procedural Knowledge
Early Years	<ul style="list-style-type: none"> Numbers and number bonds to 10 Concepts and vocabulary for talking about maths and mathematical patterns (size, weight, capacity, quantity, position, distance, time) 	<ul style="list-style-type: none"> Accurate counting Single digit addition and subtraction Halving and doubling within 10 Sharing
KS1	<ul style="list-style-type: none"> Simple fractions Basic arithmetic including: the numbering system and its symbols, place value, conventions for expressions and equations, counting, addition, subtraction, equal sharing, doubling, halving, balancing simple equations, recognise odd and even numbers, inverse operations, estimation, numerical patterns Basic measurement; length, capacity, time, position, relative size, position, direction, motion, quantity Pounds and pence Basic geometry: 2D and 3D shapes, geometric patterns Categorical data Maths facts: all number bonds within and between 20, key number bonds within and between 100, all multiplication facts for the 2, 5 and 10 multiplication tables, key 'fraction facts' such as 'half of 6 is 3', key 'time facts' such as the number of minutes in an hour 	<ul style="list-style-type: none"> Count forwards and backwards in 2s, 5s and 10s A written method for each of the four number operations Reading and writing of the digits/symbols, vocabulary and phrases required for working with simple fractions Measure length, capacity, time and monetary value Use of a ruler Spotting and making geometric and numerical patterns Construction and interpretation of categorical data: pictograms, charts and tables
Lower KS2	<ul style="list-style-type: none"> Arithmetic: enhanced knowledge of the code for number (to 1000s) including patterns and associated rules for addition and subtraction of numbers, decimal numbers, place value, negative numbers, associative and distributive laws Maths Facts: all multiplication facts for the 3, 4, 6, 7, 8, 9, 11 and 12 multiplication tables, decimal equivalents of key fractions Equivalent fractions Formulae: units of measurement conversion rules, formulae for perimeter and area Roman Numeral system and associated historical facts Geometry facts: right angles, acute and obtuse angles, right angles in whole and half turns, symmetry, triangle and quadrilateral classifications; horizontal, perpendicular, parallel and perpendicular lines Links between words/phrases in word problems and their corresponding operations in mathematics (e.g. 'spending' is associated with 'subtraction from an amount') The rules for multiplying and dividing by 10, 100 and 1000 First quadrant grid coordinate principles 	<ul style="list-style-type: none"> Counting up and down in multiples of 3, 4, 6, 7, 8, 9, 11, 12, 25, 50, 100, 1000, in tenths, in ones through to negative numbers Column addition, subtraction and multiplication Bus stop division Mental multiplication using derived facts Fractions: finding unit and non-unit fractions of amounts, common equivalents, addition, subtraction and comparison of fractions with the same denominator Measure, compare, add, subtract: lengths, mass, capacity, (all units of measurement) Read, write and compare roman numerals Draw 2D and 3D shapes Interpret and present data Estimation and rounding First quadrant grid construction, plotting and translation of points
Upper KS2	<ul style="list-style-type: none"> Enhanced knowledge of the code for number: up to and within 1 000 000, multiples, factors, decimals, prime number facts to 100, composite numbers, indexation for square and cubed numbers Properties of linear sequences Conversion facts metric to imperial measurements and vice versa Key circle, quadrilateral and triangle facts and formulae (e.g. angles on a straight line sum to 180 degrees) Rules and principles governing order of operations 	<ul style="list-style-type: none"> Scaling, coordinate geometry in all four quadrants Division with remainders as fractions, decimals and where rounding is needed Fractions: conversion mixed to improper and vice versa, add, subtract and multiply Finding percentages of amounts Converting units of measurement Measurement of length, angles, area, perimeter, volume Use of order of operations Convert between fractions, decimals and percentages Linear algebra, basic trigonometry Long multiplication and division