Guilden Sutton Church of England Primary School

Love and Justice for All

Maths Whole School Curriculum Progression Map

Our Christian Values: WISDOM, JUSTICE, COMPASSION, LOVE, FORGIVENESS, FRIENDSHIP

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	• Subitise using themed picture cards and power points. Matching numerals to quantities of 5/10/20 objects. • Number bonds to 5 and 10 using frames with themed objects. (crowns with gems etc.) • Compare and sort potatoes/ pumpkins/ vegetables according to size and weight. • Create repeating patterns and symmetrical Rangoli patterns using jewels, gems and shapes. • Name and describe 3D and 2D shapes as they build rockets, aliens and spaceships. • City scapes to be completed using Numicon. How many will you need? Which ones fit together? What other Numicon could you use instead?		• Comparing length and width of scarves for Hattie Peck. • Sorting and recognising coins. Making 5p/10p using different combinations of coins for Hung Bao money bags. • Feeding the Chinese Dragon to demonstrate subtraction. How many are left? • Sharing and cutting pancakes in halves, quarters etc. • Doubling and halving using Easter eggs and Spring flowers. • Create number bonds to 10 using spring themed pictures and objects on ten frames.		• Use fruit kebabs to display number bonds and repeating patterns. • Explore addition and subtraction using fish, shells, butterflies and fruit. • Use numberlines to identify one more, one less and counting on or back from a given number. • Use shapes to create symmetrical patterns on butterfly wings and use to demonstrate doubles/halves. • Use Noah's Ark animals to display understanding of odds and evens.	

Key Vocabulary

Number and place value: count, subitise, order/ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than (fewer)

Addition and subtraction: add, plus, altogether, total, take away /minus, number bonds, part, whole, digit

	Multiplication and division: double, half, twice as many, equal, unequal, share, group, odd, even **Measurement:** measure, wide(er), narrow(er), compare, long(er)(est), short(er)(est), length, time, quicker, slower, earlier, later, before, after, first, yesterday, tomorrow, morning, afternoon, evening, day, week, hour, minutes **Geometry:** 2-d shapes, rectangle, square, circle, triangle, characteristics, 3-d shapes, cuboids, cubes, cone, spheres, curved, straight, flat, over, under, between, around, through, on, into, next to, behind, beneath, order, repeat, patterns, on top of		
1	**Busy Ant Maths**	**Busy Ant Maths**	**Busy Ant Maths**
	Unit 1 • Number and Place Value • Addition and Subtraction • Properties of Shape	**Unit 5** • Number and Place Value • Addition and Subtraction • Properties of Shape	**Unit 9** • Number and Place Value • Addition and Subtraction • Position and Direction
	Unit 2 • Addition and Subtraction • Addition and Subtraction • Measurement - Length and Height	**Unit 6** • Multiplication and Division • Multiplication and Division • Measurement – Mass	**Unit 10** • Multiplication and Division • Multiplication and Division • Measurement – Length and Height
	Unit 3 • Number and Place Value • Multiplication and Division • Position and Direction	**Unit 7** • Addition and Subtraction • Addition and Subtraction • Measurement – Time	**Unit 11** • Addition and Subtraction • Addition and Subtraction • Properties of shape
	Unit 4 • Addition and Subtraction • Fractions • Measurement - Money	**Unit 8** • Number and Place Value • Fractions • Measurement - Volume and Capacity	**Unit 12** • Multiplication and Division • Fractions • Measurement - Time
	Busy Ant Maths Year 1 Medium Term Plans		
	Key Vocabulary **Number and place value:** sort, represent, multiples, partitioning, ones, tens. **Addition and subtraction:** addition/add, subtraction, difference, equals, facts, problems, missing number problems, 2-digit number, inverse		

	Multiplication and division: multiplication, division, arrays **Fractions, decimals and percentages:** whole, half, quarter, equal parts **Measurement:** Compare, mass, volume, chronological order, days of the week, months of the year, month, year, o'clock, half past, second, money, coins, notes, pounds £, pence p **Geometry:** sides, corners, properties, pyramids, faces, position, direction, movement, whole turn, quarter turn, half turn, three-quarter turn		
2	**Busy Ants Maths** **Unit 1** • Number and place value • Addition and subtraction • Properties of shape **Unit** • Addition and subtraction • Measurement (length and height) **Unit 3** • Multiplication and division • Number and place value • Position and direction **Unit 4** • Multiplication and division • Number and place value • Fractions • Measurement (time)	**Busy Ants Maths** **Unit 5** • Number and place value • Addition and subtraction • Measurement (money) • Properties of shape **Unit 6** • Multiplication and division • Number and place value • Measurement (mass) **Unit 7** • Addition and subtraction • Measurement (money) • Statistics **Unit 8** • Multiplication and division • Number and place value	**Busy Ants Maths** **Unit 9** • Number and place value • Addition and subtraction • Position and direction **Unit 10** • Multiplication and division • Number and place value • Measurement (temperature) **Unit 11** • Addition and subtraction • Statistics **Unit 12** • Multiplication and division • Number and place value • Fractions • Measurement (time)
	[Busy Ant Maths Year 2 Medium Term Plans](#)		
	Key Vocabulary **Number and place value:** count in steps, count in multiples, place value, estimate, compare **Addition and subtraction:** sum, 3-digit number, commutative		

	Multiplication and division: multiplication tables, commutative, repeated addition **Fractions, decimals and percentages:** three quarters, third, equivalent fractions, unit fractions, non-unit fractions, numerator, denominator, one whole **Measurement:** standard units, estimate, order, record results, centimetre (cm), metre (m), kilogram (kg), gram (g), quarter full, three quarters full, litres (l), millilitres (ml), temperature, Celsius, intervals of time, quarter past/to, duration, value, change **Geometry:** pentagon, hexagon, line of symmetry, properties, cylinder, edges, vertices, vertex, clockwise/anti-clockwise, straight line, rotation, arrange, sequences **Statistics:** pictograms, tally chart, block diagram, category, sorting, totalling, comparing, horizontal, vertical		
3	**Busy Ant Maths** **Unit 1** • Number and Place Value • Addition and Subtraction • Properties of Shape **Unit 2** • Multiplication and Division, Number and Place Value • Fractions • Measurement (mass) **Unit 3** • Addition and Subtraction • Addition and Subtraction • Properties of Shape **Unit 4** • Multiplication and Division-4x • Multiplication and Division-8x • Measurement (time)	**Busy Ant Maths** **Unit 5** • Number and Place Value • Addition and Subtraction (money) **Unit 6** • Multiplication and Division • Fractions • Measurement (length and perimeter) **Unit 7** • Addition and Subtraction • Addition and Subtraction (money) • Statistics **Unit 8** • Multiplication and Division • Fractions • Measurement (perimeter)	**Busy Ant Maths** **Unit 9** • Number and Place Value • Addition and Subtraction • Properties of Shape **Unit 10** • Multiplication and Division • Fractions • Measurement (volume and capacity) **Unit 11** • Addition and Subtraction (including measurement – money) • Addition and Subtraction • Measurement (time) **Unit 12** • Multiplication and Division • Multiplication and Division • Statistics
	Busy Ant Maths Year 3 Medium Term Plans		

	Key Vocabulary
	Number and place value: ascending, descending, 10 or 100 more, 10 or 100 less, hundreds
	Addition and subtraction: column addition, column subtraction, exchange, estimate
	Multiplication and division: exchange, mathematical statements, missing number problems, integer scaling problems, correspondence problems, derived facts
	Fractions, decimals and percentages: tenths
	Measurement: millimetre (mm), perimeter, analogue clock, roman numerals, 12-hour clock, 24-hour clock, a.m./p.m., noon, midnight, leap year, digital
	Geometry: right-angle triangle, heptagon, octagon, polygon, properties, prism, orientations, angles, acute angle, obtuse angle, turn, right angles, half turn, three quarters of a turn, greater than right angle, less than right angle, horizontal lines, vertical lines, perpendicular lines, parallel lines
	Statistics: table, bar chart, one-step problem, two-step problem

4	**Busy Ant Maths**	**Busy Ant Maths**	**Busy Ant Maths**
	Unit 1 • Number and place value • Addition and subtraction • Properties of shape **Unit 2** • Multiplication and division including number and place value • Fractions • Position and direction **Unit 3** • Addition and subtraction • Decimals • Measurement (mass) **Unit 4**	**Unit 5** • Number and place value • Addition and subtraction • Properties of shape **Unit 6** • Multiplication and division including number and place value • Fractions • Measurement (length) **Unit 7** • Addition and subtraction • Addition and subtraction • Statistics **Unit 8** • Multiplication and division	**Unit 9** • Number and place value • Addition and subtraction including measurement (money) • Properties of Shape **Unit 10** • Multiplication and division • Fractions • Measurement (volume and capacity) **Unit 11** • Addition and subtraction including measurement (money) • Decimals • Position and direction **Unit 12**

	- Multiplication and division including number and place value - Decimals - Measurement (time)	- Decimals - Measurement (perimeter and area)	- Multiplication and division - Multiplication and division - Statistics

[Busy Ant Maths Year 4 Medium Term Plans](#)

Key Vocabulary

Number and place value: negative numbers, roman numerals, 1000 more, 1000 less, thousands, round

Addition and subtraction: 4-digit number, operations, methods

Multiplication and division: factor pairs, formal written layout, distributive law, remainders

Fractions, decimals and percentages: decimal equivalence, hundredths, convert, proper fractions, improper fractions, decimal point

Measurement: kilometres (km), rectilinear figure, area, convert

Geometry: isosceles, equilateral, scalene, trapezium, rhombus, parallelogram, kite, geometric shapes, quadrilaterals, co-ordinates, first quadrant, grid, translation, plot, polygon, axis

Statistics: time graph, discrete data, continuous data, line graph, comparison problem, sum problem, difference problem, calculate, interpret

5	Busy Ant Maths	Busy Ant Maths	Busy Ant Maths
	Unit 1 - Number and Place Value - Addition and Subtraction - Properties of Shape **Unit 2** - Multiplication and Division - Fractions - Position and Direction **Unit 3** - Addition and Subtraction - Decimals	**Unit 5** - Number and Place Value - Addition and Subtraction - Properties of Shape **Unit 6** - Multiplication and Division - Fractions - Measurement (length) **Unit 7** - Decimals	**Unit 9** - Number and Place Value - Addition and Subtraction - Properties of Shape **Unit 10** - Multiplication and Division (including measurement – money) - Fractions - Measurement (volume and capacity) **Unit 11**

	• Measurement (mass) **Unit 4** • Multiplication and Division • Multiplication and Division • Measurement (time)	• Addition and Subtraction • Statistics **Unit 8** • Multiplication and Division • Percentages (including fractions and decimals) • Measurement (perimeter and area)	• Addition and Subtraction (including measurement – money) • Percentages (including fractions and decimals) • Position and Direction **Unit 12** • Multiplication and Division (including measurement – money) • Multiplication and Division (including measurement – money) • Statics

Busy Ant Maths Year 5 Medium Term Plans

Key Vocabulary

Number and place value: ten thousands, one hundred thousands, powers of, integer

Addition and subtraction: see previous years

Multiplication and division: multiples, factors, prime numbers, square numbers, cube numbers, short division, product, dividend, divisor, quotient, operations

Fractions, decimals and percentages: fifth, thousandths, mixed numbers, per cent (%), factors, integer, complements

Measurement: decimal notation, scaling, metric units, imperial units, inches, compound shape, irregular shapes, square centimetres, square metres, cubic centimetre, pounds, pints

Geometry: regular polygon, irregular polygon, reflex angles, degrees, one whole turn, angles on straight line, angles around a point, vertically opposite, missing angles, reflection

Statistics: timetables, two-way tables

6	**Busy Ant Maths** **Unit 1** • Number and Place Value • Addition and Subtraction	**Busy Ant Maths** **Unit 5** • Addition, Subtraction, Multiplication and Division including Number and Place Value	**Busy Ant Maths** **Unit 9** • Addition and Subtraction, Multiplication and Division

- Properties of Shape

Unit 2
- Multiplication and Division
- Fractions
- Position and Direction

Unit 3
- Addition and Subtraction
- Decimals
- Measurement (length)

Unit 4
- Multiplication and Division
- Fractions (including decimals and percentages)
- Measurement – Time

- Algebra
- Properties of shape

Unit 6
- Multiplication and Division
- Multiplication and Division including Decimals
- Measurement (mass)

Unit 7
- Fractions
- Ratio and Proportion
- Statistics

Unit 8
- Multiplication and Division
- Multiplication and division including Decimals
- Measurement (perimeter and area)

- Algebra
- Geometry – Properties of Shape

Unit 10
- Multiplication and Division (including Decimals)
- Fractions
- Measurement (volume and capacity)

Unit 11
- Addition, Subtraction, Multiplication and Division
- Ratio and Proportion
- Position and Direction

Unit 12
- Multiplication and Division (including Decimals)
- Fractions (including decimals and percentages)
- Statistics

Busy Ant Maths Year 6 Medium Term Plans

Key Vocabulary

Number and place value: millions, ten millions

Addition and subtraction: see previous years

Multiplication and division: multi-digit numbers, long division

Fractions, decimals and percentages: see previous years

Ratio and proportion: relative size, missing values, integer multiplication, percentages, scale factor, unequal sharing & grouping

Algebra: formulae, linear number sequences, algebraically, equation, unknowns, combinations, variables

Measurement: conversion, miles, formulae, parallelograms, triangles, feet, cubic metre, cubic millimetre, cubic kilometre, gallons, stones, ounces

Geometry: radius, diameter, circumference, dimensions, four quadrants, co-ordinate planes

Statistics: pie chart, mean