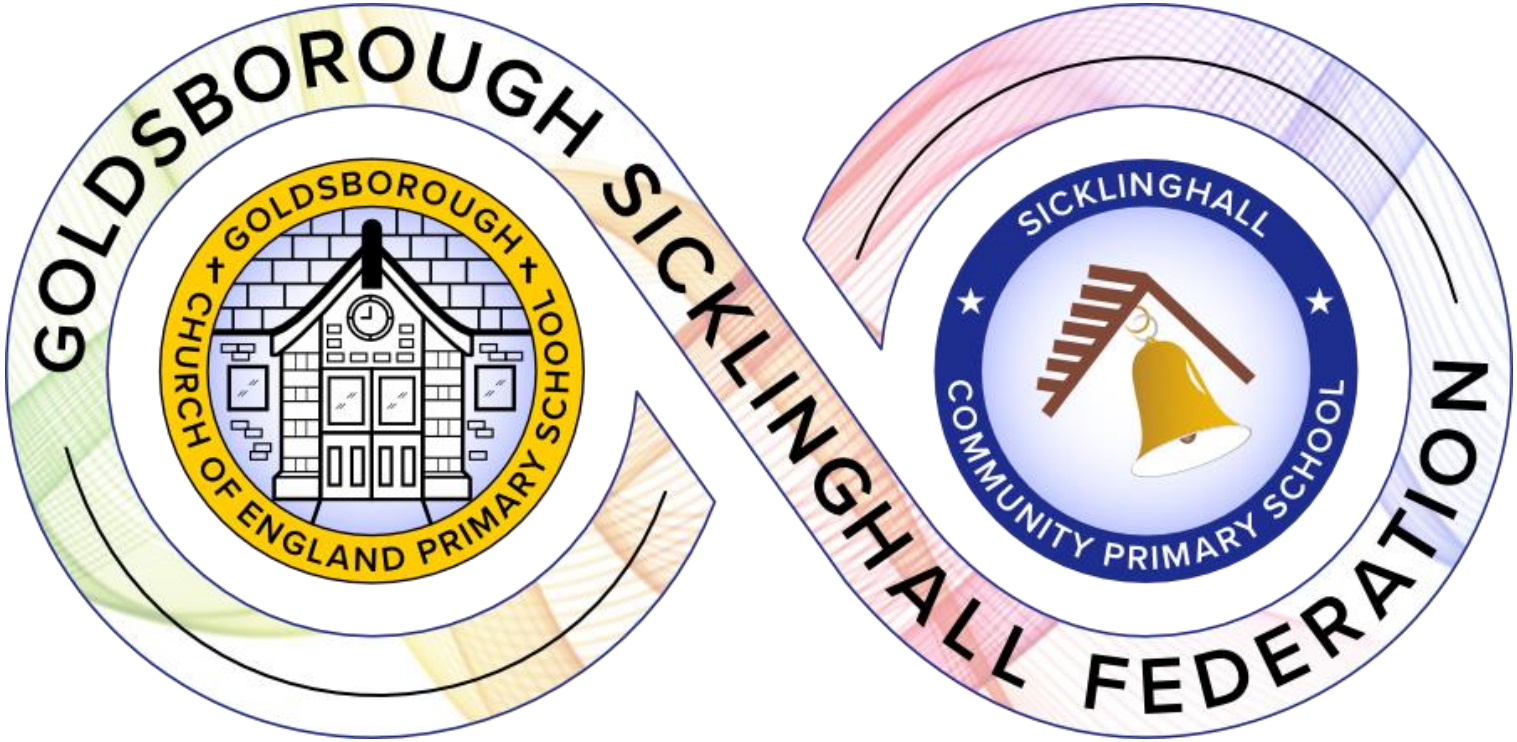

Maths Declarative knowledge LTP

2024-2025

EYFS					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Subitise numbers up to 5.	Recall number bonds up to 5 . Recall names of numerals to 10. Know some doubles to 5	Use the vocabulary greater than and less than to compare 2 quantities. Recall some number bonds to 10 including double facts.	To use everyday language to describe height, weight and length. I know what a repeating pattern is eg AB and ABB.	Verbally count beyond 20.

Year 1

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Say one more/ one less to 100. Adding and subtracting 1 – numbers to 10, Step 1 Use <, > and = Doubles and near doubles to 5. Step 2 Adding and subtracting 2 to odd/even numbers Step 3 Read and write numbers from 1 to 20 (numerals and words). Ordinal numbers. Use the language of: equal to, more than, less than (fewer), most, least. Use number bonds and subtraction facts to 10. Step 4 Consolidation of fluency related to current topic and the children's needs.	Reading and writing numbers to 50. Counting in 2s Counting in 5s Adding and subtracting 10 Step 5 Say one more/one less to 100. Comparing numbers. Use the number bonds and subtraction facts to 20. Consolidation of fluency related to current topic and the children's needs.	Counting in 10s Doubling to 10 – understanding the basic concept. Number facts up to 10 that haven't been covered. Step 6 Reading and writing numbers to 100. Count to and across 100, forwards and backwards from any number. Recognise 2D and 3D shapes (circle, triangle, square, rectangle, cube, cuboid, sphere, pyramids). Consolidation of fluency related to current topic and the children's needs.	Patterns – creating and completing given patterns. Halving – to understand the basic concept Recognise half and quarter of an object, shape or quantity. Add and subtract 10 from a given number. Consolidation of fluency related to current topic and the children's needs.	Use the number bonds and subtraction facts to 20. Sequence events in chronological order. Read time to hour & half past. Doubles and near doubles. Consolidation of fluency related to current topic and the children's needs.	Count in different multiples including ones, twos, fives and tens. Tell the time to the hour and half past. Using the language: before and after, day, week, month and year. Use the number bonds and associated subtraction facts to 20. Know the value of different coins. Consolidation of fluency related to current topic and the children's needs.

Year 2

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reading and interpreting part whole model. Reading and writing numbers to 100 in numerals and words. Use <, > and = to compare and order numbers to 100. Partitioning – recognise place value of any 2 digit number. Recall and use +/- facts to 20. 10 more/less than any given number. Consolidation of fluency related to current topic and the children's needs.	Derive and use related facts to 100. Reading and interpreting bar models Counting in 2s, 5s and 10s from any given numbers (forwards and backwards) Recall and use multiplication and division facts for 2, 5 and 10 tables. Recall and use +/- facts to 20 Recall and use inverse (+/-) Consolidation of fluency related to current topic and the children's needs.	Classifying/sorting odd and even numbers Counting in 2s, 5s and 10s Using <, > and = to compare numbers to 100. Doubles to 10. Step 7 Pentagons, hexagons, octagons. Know and use edges, vertices and faces. Consolidation of fluency related to current topic and the children's needs.	Naming 2D shapes Sorting Halve simple numbers via partitioning Near doubles Step 8 Number bonds to 100 in multiples of 10. Doubling numbers in the middle (6+8 = 7+7) Step 9 Bridging (two numbers that are close together, you count up from the lowest) Step 10 Consolidation of fluency related to current topic and the children's needs.	Tell time to five minutes, including quarter past/to Know there are 60 minutes in an hour. Compensating (taking one number to make the other number easier to add onto) Step 11 To know 1cm=10mm, 100cm = 1m. Recognise, find, name and write 1/3; ¼; 2/4; ¾ Write and recognise equivalence of simple fractions. Count in halves up to 10. Fluency based on the children's needs with the SATS in mind.	Reading and writing numbers to a thousand (numerals and words). Comparing numbers to 100. Know the multiplication facts and division facts for x2, x5 and x10. Count in 3s Consolidation of fluency related to current topic and the children's needs.

Year 3

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
10 or 100 more/ less than a given number. Read and write numbers to 1000 in digits and words. Recognise place value of any 3-digit number. Know halves and doubles to 20. Recall 2, 5 and 10 times tables. Know number bonds to all numbers to 20. Consolidation of fluency related to current topic and the children's needs.	Recall and use multiplication and division facts for 3 and 4 tables. Read and interpret bar models. Number bonds to 100 in multiples of 10 and 5. Using bridging and compensating. Consolidation of fluency related to current topic and the children's needs.	Multiplying and dividing by 10. Compare and order numbers to 1000 using <, > and = Estimate and use inverses to check. Recall and use multiplication and division facts for 3, 4 and 8 tables. Consolidation of fluency related to current topic and the children's needs.	Recognise tenths and count in tenths. Multiply and divide by 1000. To multiply and divide by 100. Recall and use multiplication and division facts for 3, 4 and 8 tables. Consolidation of fluency related to current topic and the children's needs.	Compare and order fractions with the same denominator. Add and subtract fractions with the same denominator within one whole. Fractions on a number line. Fractions of a set of objects. Convert between g and kg, m and km, ml and L. Recall and use multiplication and division facts for 3, 4 and 8 tables. Consolidation of fluency related to current topic and the children's needs.	Know days in each month and the number of seconds in a minute. Telling the time to the nearest minute. Number of degrees in a right angle. Naming 2D and 3D shapes. Recall and use multiplication and division facts for 3, 4 and 8 tables. Consolidation of fluency related to current topic and the children's needs.

Year 4

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Identify place value of each digit in a 4 digit number 1000 more/less Read and write numbers to 1000/10,000 Compare and order numbers beyond 1,000. Partitioning numbers in different ways Read roman numerals to 100. Count in multiples of 3, 4 and 8. Consolidation of fluency related to current topic.	To calculate the number bonds to 100, in ones. Count backwards through zero to negative numbers. Rounding to nearest 10, 100, 1000. Count on in 10s from any given number Multiply and divide by 10,100 and 1000 Count in multiples of 6 and 7. Consolidation of fluency related to current topic.	Use the inverse operations to check answers to a calculation – number fact families. Count in multiples of 6, 7, 9, 25 and 1000. Know the number bonds to 1000 in 100s and 50s. 1000 divided by 2, 4, 5 and 10. Count in multiples of 6, 7 and 9. Consolidation of fluency related to current topic.	Read and draw given fractions Add/subtract fractions with the same denominator. Fractions which make 1 whole Develop knowledge of multiplication to 12x12 Can use additive facts to calculate others (Scaling), i.e. 4+3=7, 40+30=70. Can use related facts when solving multiplications, i.e. 3x4=12, 30x4=120. Develop knowledge of multiplication to 12x12 Consolidation of fluency related to current topic.	Finding fractions of an amount Recognise and write equivalent fractions. Convert between decimals and fractions for hundredths and tenths – 0.1=1/10, ¼, ½ and ¾. Count up/down in hundredths. Value of each digit in a number with up to 2dp Compare and order numbers with up to 2dp Consolidation of fluency related to current topic.	To classify angles: acute, right angle, reflex, obtuse. Order and compare angles according to size Label triangles based on their properties Convert between units of measurement from previous years. Read, write and convert time between analogue and digital 12 and 24 hour clocks. To know the number of years in a decade, century and millennium. Consolidation of fluency related to current topic.

Year 5

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Develop knowledge to 12x12 Count forwards/backwards in steps of powers of 10 for any given number to 100,000. Read and write numbers to 1000 Rounding to nearest 10, 100, 1000 Identify place value of each digit of any number to 100,000. Recall prime numbers to 20. Count forwards and backwards including negative numbers through zero. Convert £ to p and vice versa. Consolidation of fluency related to current topic.	Compare and order numbers up to 1,000,000 Count forwards/ backwards in steps of powers of 10 for any given number to 1,000,000. Multiply and divide by 10,100 and 1000 – integers. Identify place value of each digit of any number to 1, 000,000. Use rounding to check answers. Recognise mixed numbers and improper fractions and convert from one to another. Multiply proper fractions and mixed number by whole numbers. Read roman numerals up to 1000. Consolidation of fluency related to current topic.	Compare and order numbers with up to 3 decimal places. Count in hundredths and thousandths Recognise and use thousandths. Round decimals with 2dp to the nearest whole number and 1 dp. Identify and write equivalent fractions. List equivalent fractions Identify and write equivalent fractions. Find non-unit fractions of an amount Consolidation of fluency related to current topic.	Value of each digit in a number with up to 3dp. Compare and order numbers with 3 decimal places. Know angles at a point (whole turn = 360º, and a straight line =180º. Complete part-whole models with decimals to 1 whole Equivalence between fractions, decimals and percentages Number bonds to 1000 in 10, 100. Recall square numbers up to 12_2 and their square roots. Consolidation of fluency related to current topic.	Convert between measures of time Tell the time accurately to the nearest minute using an analogue clock Draw the time accurately to the nearest minute using an analogue clock Calculate durations of time using a number line Conversion of 12 hour to 24hr clock Column addition and subtraction. Consolidation of fluency related to current topic.	Identify and order angles according to size Identify triangles and quadrilaterals according to properties Measuring and drawing angles accurately Convert between units of measurement Consolidation of fluency related to current topic.

Year 6

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Compare and order numbers up to 1,000,000 Read and write numbers to 1,000,000. To know the value of each digit. Rounding any whole number to a required degree of accuracy. Identify place value of each digit in a number to 3dp. Use negative numbers in context and calculate intervals across zero. Partitioning numbers in different ways Using the inverse operation to check calculations. Consolidation of fluency related to current topic.	Compare and order numbers up to 10,000,000 Read and write numbers to 10,000,000. To know the value of each digit. Multiply and divide by powers of 10. Identify common factors, common multiples, square, cubed and prime numbers. +/- fractions with different denominators and mixed numbers. Multiply simple pairs of proper fractions, writing the answer in the simplest form. Divide proper fractions by whole numbers. Consolidation of fluency related to current topic.	Multiply and divide by 10, 100 and 1000. Find equivalent fractions, decimals and percentages. Calculate % of a whole number. Convert between fractions, decimals and percentages. Order fractions, decimals and percentages. Converting between units. Consolidation of fluency related to current topic.	Multiplying 3 numbers. Finding the mean, mode and median. Calculating percentages. Naming the parts of circles, including radius, diameter and circumference, and know that the diameter is twice the radius. Converting between units for area, perimeter and volume. To know that angles of a triangle add up to 180º, and angles of a quadrilateral add up to 360º. Consolidation of fluency related to current topic.	Fluency based on the children's needs with the SATS in mind.	Partitioning – decimals and fractions. Reading, writing and ordering numbers. Rounding numbers to support estimation. Consolidate knowledge to 12x12 Know the order of calculations BODMAS. Consolidation of fluency related to current topic. To know 5miles = 8km.