Heath Hayes Academy

Maths Overview

	Mon	Tues	Weds	Thurs	Fri
EYFS	Foundational Facts	Foundational Facts	Foundational Facts	Foundational Facts	Foundational Facts
Year 1 Foundational facts at transition times	Fluency Bee	Fluency Bee	Fluency Bee	Fluency Bee	Fluency Bee
Year 2 Multiplication songs at transition times	Fluency Bee	Fluency Bee	Fluency Bee Foundational Facts	Fluency Bee Foundational Facts	Fluency Bee Foundational Facts
Year 3	Foundational Facts	Multiplication Tables	Multiplication Tables	Foundational Facts	Foundational Facts
Year 4	Multiplication Tables	Multiplication Tables Foundational Facts	Multiplication Tables Foundational Facts	Multiplication Tables	Multiplication Tables
Year 5	Foundational Facts	Foundational Facts	Arithmetic	Arithmetic	Arithmetic
Year 6	Foundational Facts	Foundational Facts	Arithmetic	Arithmetic	Arithmetic

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Supporting Foundational Knowledge

Ready-to-progress criteria strands	Code
Number and place value	**NPV**
Number facts	**NF**
Addition and subtraction	**AS**
Multiplication and division	**MD**
Fractions	**F**
Geometry	**G**

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Foundational Knowledge Progression Nursery & Reception

Nursery – Ongoing Facts
Ongoing Facts YN
Say all numbers to 5
Count out any object to 5
Choose the number to represent 1 to 5 objects
Count back from 5
Subitise to 5

Reception – Ongoing Facts
Ongoing Facts YR
Say all numbers to 10
Count to 10
Say all numbers to 20
Count to 20
Count forward and backwards from any given number (within 20)
Say 1 more/1 less of any number to 20
Recall all number bonds to 5
Recall some number bonds to 10
Recall composition of numbers to 5
Subitise numbers on dice
Begin to subitise numbers to 10
Begin to double numbers to 10
Recall the days of the week
Recall the months of the year
Recognise 1p, 2p, 5p, 10p and 20p coins
Name basic 2D shapes (square, circle, triangle, rectangle)
Name basic 3D shapes (sphere, cone, cube, cuboid, cylinder, pyramid)

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Foundational Knowledge Progression Year 1 & 2

Year 1 – Ongoing Facts
Ongoing Facts Y1
Count forwards and backwards up to 50
Count forwards and backwards up to 100
Find 1 more/1 less of any number to 50
Find 1 more/1 less of any number to 100
Recall number bonds of all numbers to 10 (e.g. 6 = 5+1, 4+2, 6+0 and 3+3)
Recall all number bonds to 5 and 10
Recall composition of numbers to 5
Recall composition of numbers to 10
Double and halve numbers to 10
Identify odd and even numbers to 20
Recall the days of the week
Recall the months of the year
Recognise all coins
Count in 2s, 5s and 10s
Partition numbers into 1s and 10s
Name a variety of 2D and 3D shapes 2D – square, circle, triangle, rectangle 3D – sphere, cone, cube, cuboid, cylinder, pyramid

Year 2 – Ongoing Facts
Ongoing Facts Y2
Read and write to 100 and beyond
Count forwards and backwards in multiples of 10
Find 1 more/1 less and 10 more/10 fewer of any number to 100
Recall number bonds to 10 and 20
Recall composition of numbers to 10
Recall number bonds to 100 (10 + 90 etc…)
Double and halve (even) numbers to 20
Count in 2s
Count in 5s
Count in 10s
Count in 3s
Recall days of the week and months of the year
Recognise all coins and notes
Recall all multiplication and division facts for 2x table
Recall all multiplication and division facts for 5x table
Recall all multiplication and division facts for 10x table
Name a variety of 2D and 3D shapes 2D – square, circle, triangle, rectangle, pentagon, hexagon 3D – sphere, cone, cube, cuboid, cylinder, pyramid

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Foundational Knowledge Progression Year 3 & 4

Year 3 – Ongoing Facts
Ongoing Facts Y3
Read and write numbers to 1000
Count forwards and backwards beyond 100 in various steps
Find 10/100 more or fewer than a given number
Recall number bonds of all numbers up to 10 and 20
Recall number bonds to 100 and 1000 (10 + 90, 100 + 900 etc…)
Double and halve (even) numbers to 20 as well as multiples of 5 (double) and 10 (halve and double)
Recall bonds to 60 (calculate minutes to the next hour)
Recognise all coins and notes
Convert between pounds and pence
Count in 50s
Recall days of the week and months of the year
Recall time conversions (secs in a min, hours in a day etc)
Recall all multiplication and division facts for 2x, 5x and 10x table
Recall all multiplication and division facts for 3x table
Recall all multiplication and division facts for 4x table
Recall all multiplication and division facts for 8x table

Year 4 – Ongoing Facts
Ongoing Facts Y4
Read and write numbers to 10000
Count forwards and backwards beyond 1000 in various steps
Find 10/100/1000 more or fewer than a given number
Multiply numbers by 10 and 100
Divide 1 and 2-digit numbers by 10
Recall addition facts to 20, 50 and 100
Double and halve (even) numbers to 50
Calculate minutes to the next hour
Round to the nearest 10, 100 and 1000
Find unit fractions of amounts linked to division e.g ¼ of 24
Find factors of numbers to 20
Convert measures mm to l, cm to mm, mins to hours etc
Recall basic equivalent fractions to decimals (1/4, ½, 3/4)
Recall all multiplication and division facts for 2x, 5x and 10x table
Recall all multiplication and division facts for 3x, 4x and 8x tables
Recall all multiplication and division facts up to 12x12

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Foundational Knowledge Progression Year 5 & 6

Year 5 – Ongoing Facts
Ongoing Facts Y5
Read and write numbers to 1000000
Count forwards and backwards beyond 100000 in various steps including negative numbers
Find 10/100/1000/10000/100000 more or fewer than a given number
Multiply and divide number by 10, 100 and 1000
Recall compliments to 1 (0.45 + 0.55 etc)
Recall addition facts to 20, 40, 60, 80, 100
Double and halve numbers to 1000 (inc decimals)
Round to the nearest 10^{th}
Round to the nearest 10, 100 and 1000
Find factors of amount to 100
Find unit and non-unit fractions of amounts linked to division e.g ¼ of 24
Convert measures mm to l, cm to mm, mins to hours etc
Recall basic equivalent fractions to decimals and percentages (1/4, ½, ¾, 1/10, 1/5)
Know all multiplication and division facts up to 12x12
Recall prime numbers to 20
Square numbers to 10
Cube numbers to 5

Year 6 – Ongoing Facts
Ongoing Facts Y6
Read and write numbers to 10000000
Count forwards and backwards beyond 10000 in various steps including negative numbers
Find 10/100/1000/10000 more or fewer than a given number
Multiply and divide number by 10, 100 and 1000
Recall decimal compliments to 10 (3.45 + 6.55 etc)
Recall addition facts to 20, 40, 60, 80, 100, 180, 360 and 1000
Double and halve numbers to 100 (inc decimals)
Round to the nearest 10^{th} and 100^{th}
Round to the nearest 10, 100 and 1000
Find factors of amounts to 100
Find unit and non-unit fractions of amounts linked to division e.g ¼ of 24
Convert measures mm to l, cm to mm, mins to hours etc
Recall equivalent fractions to decimals and percentages (1/4, ½, ¾, 1/10, 1/3, 1/5, 1/6 etc)
Know all multiplication and division facts up to 12x12
Recall prime numbers to 100
Square numbers to 10
Cube numbers to 10

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Multiplication Long Term Planning

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y3	Revisit and 2x, 5x and 10x tables (both counting and tables themselves) Count in multiples of 3 to 12x3 in order from 0 fluently Recall multiples of 3 up to 12x3 in any order, including missing numbers and related division facts with growing fluency. 1) 1x3, 2x3, 5x3 and 10x3 2) 3x3, 4x3	Recall multiples of 3 up to 12x3 in any order, including missing numbers and related division facts fluently. 1) 6x3, 7x3, 8x3 2) 9x3, 11x3, 12x3 Count in multiples of 4 to 12x4 in order from 0 with fluency. Introduce (relating to x4) and begin to count in multiples of 8 from 0 to 12x8. Assessment week Revisit and 2x, 3x, 5, and 10x tables	Recall multiples of 4 up to 12x4 in any order, including missing numbers and related division facts with growing fluency. 1) 1x4, 2x4, 5x4 and 10x4 2) 3x4, 4x4 Count in multiples of 8 to 12x8 in order from 0 fluently. Recall multiples of 4 up to 12x4 in any order, including missing numbers and related division facts fluently. 1) 6x4, 7x4, 8x4 2) 9x4, 11x4, 12x4 Revisit 2x, 3x, 4x, 5x, 10x tables (Mixed practice)	Recall multiples of 8 up to 12x8 in any order, including missing numbers and related division facts with growing fluency. 1) 1x8, 2x8, 5x8 and 10x8 2) 3x8, 4x8 3) 6x8, 7x8, 8x8 4) 9x8, 11x8, 12x8 Assessment week Revisit all table taught so far with 3x and 4x focus (Mixed practice)	Fluently count in 6's in order up to 12x6, using multiples of 3 to support Recall multiples of 6 in any order, including missing numbers and related division facts with growing fluency. 1) 1x6, 2x6, 5x6 and 10x6 2) 3x6, 4x6 3) 6x6, 7x6, 8x6 4) 9x6, 11x6, 12x6	Revisit 3x and 6x (mixed practice) Revisit 4x and 8x (mixed practice) Revisit all taught so far (mixed practice) Personalised practice and end of year assessment
Y4	Revisit 2x, 3x, 4x, 5x, 6x, 8x, and 10 (Additional coverage of 6x table if needed) Fluently count in 7's in order up to 12x7. Recall multiples of 7 in any order, including missing numbers and related division facts with growing fluency. 1) 1x7, 2x7, 5x7 and 10x7 2) 3x7, 4x7 3) 6x7, 7x7, 8x7 4) 9x7, 11x7, 12x7	Fluently count in 9's in order up to 12x9. Recall multiples of 9 in any order, including missing numbers and related division facts with growing fluency (using 10x and adjusting by 1 group to find 9x as a strategy) 1) 1x9, 2x9, 5x9 and 10x9 2) 3x9, 4x9 3) 6x9, 7x9, 8x9 4) 9x9, 11x9, 12x9 Assessment week Revisit 2x, 3x, 4x, 5x, 6x, 7x, 8x, and 10 (Mixed practice)	Fluently count in 11's in order up to 12x11. Recall multiples of 11 in any order, including missing numbers and related division facts fluently. 1) 1x11, 2x11, 5x11 and 10x11 2) 3x11, 4x11 3) 6x11, 7x11, 8x11 4) 9x11, 11x11, 12x11 Fluently count in 12's in order up to 12x12.	Recall multiples of 12 in any order, including missing numbers and related division facts with growing fluency (using 10x and adjusting by adding 2 more groups). 1) 1x12, 2x12, 5x12 and 10x12 2) 3x12, 4x12 3) 6x12, 7x12, 8x12 4) 9x12, 11x12, 12x12 Assessment week Revisit 2x, 3x, 4x, 5x, 10x (Mixed practice)	Revisit 4x, 8x, 12x (Mixed practice) Revisit 3x, 6x, 9x (Mixed practice) Revisit 7x, 11x, 12x (Mixed practice) Personalised practice and MTC practice of all tables	DFE multiplication table check Personalised practice ready for Y5 (based on gaps from MTC)
Y5	Once pupils are secure in previous years content, progression would be: Mixed practice and consolidation of tables up to 12x12 in any order, including missing numbers and related division facts. Using results of MTC map out a similar programme for the multiplication tables that the cohort struggled with.					
Y6	Using gap analysis from tests, put together a more individual, differentiated programme of support to address gaps in multiplication tables knowledge. Development of multiplicative reasoning – links between Multiplication and Division, Fractions and Ratio as well as deriving associated facts Move onto Platinum Card to learn other mathematical facts and processes					