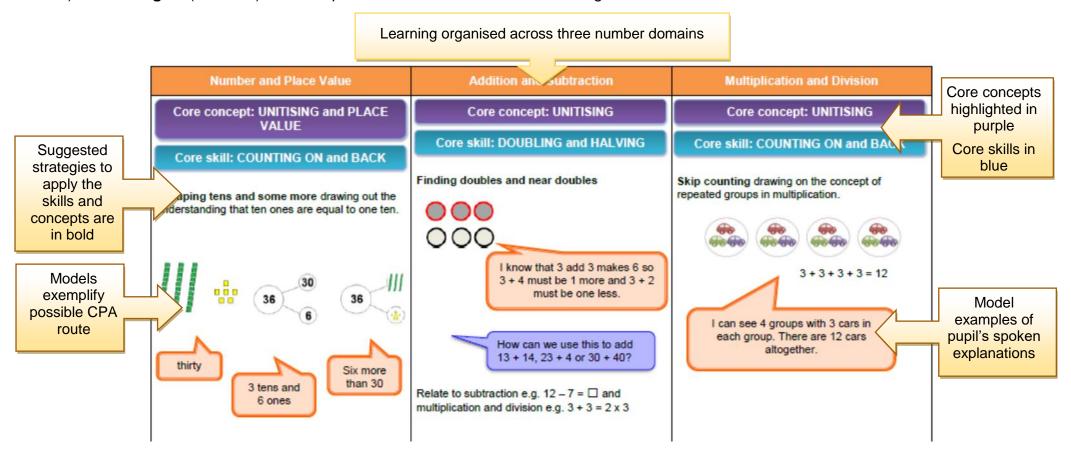
## Using the progression document

The progression is structured into phases. In Years 1 to 4, this is organised into individual year groups. At the beginning, there is a section entitled 'Pre-operational Learning'. This helps ensure that the foundations are secure by the end of EYFS and in the first few weeks in Year 1 before mental fluency within numbers to 10 begins. This also supports the early identification of gaps and barriers.

In each year group / phase, the progression is organised into the National Curriculum Programs of Study domains: number and place value; addition and subtraction; multiplication and division including fractions. Within these domains, key **concepts** (ideas), **skills** (which can be utilised) and **strategies** (methods) are exemplified within the relevant number ranges.







At the end of each phase, a selection of possible examples that align with a given strategy or skill are included. For KS1 and UKS2, there are examples taken directly from the relevant end of key stage assessments (2016) and sample papers. When designing opportunities to practise or for strategy discussions, these will support teachers to explore and / or guide pupils towards a particular strategy.

## **Upper KS2 examples**

Place Value	Compensation	Think Partition for x and ÷
937 + 100 1969 + 100 546 - 40	56 + 8 72 + 9 56 - 8 72 - 9	32 x 4 29 x 2 122 x 4 4.6 x 2
1.7 + 0.05 40 000 - 500	371 + 18 255 + 49 304 + 299	75 x 3 8.3 x 6 39 x 7
246 ÷ 1 100 x 217 0.4 ÷ 10	673 - 99 854 - 398 3720 - 996	3.3 x 7 5 x 49 4 x 198 96 x 0.3
1.68 x 100 100 x 100	0.71 + 0.09  0.56 + 0.08  0.34 - 0.09	
Examples from 2016 KS2 and Sample Papers	£1.17 + £0.39    £8.89 - £4.99	Examples from 2016 KS2 and Sample Papers
435 - 30 979 + 100 3.005 + 6.12 2.15 + 0.05		15 x 6.1 24 x 3 1.52 x 6 7,505 ÷ 5
100 x 412  0.9 ÷ 10  1.28 x 100  50,000 – 500	Examples from 2016 KS2 and Sample Papers	17 x 1½
10 x 100	400 - 9 4/2 - 9 10.90 + 20.314	
THE PERSON OF TH	12 - 6.01 15.4 - 8.88	Make links to doubling and halving
Two decimal numbers add together to equal 1 One of		50 x 28 86 x 50 500 x 70 18 x 2.5
the numbers is 0.007. What is the other number?	Rebalancing - Equal sum	86 x 2.5 160 x 35 500 x 88 1.5 x 6.6
Circle two numbers that added together make 0.25	56 + 8 72 + 9 371 + 18 255 + 49	0.5 x 120 4.5 x 2.2 15% x 346 75% x 220
0.05 0.23 0.2 0.5	304 + 267	
Circle two numbers that multiply together to equal 1	£37.67 + £3.85 563 + 397 890,488 + 4,890	Examples from 2016 KS2 and Sample Papers
million	229,899 + 31,321	15% x 440
200 2,000 5,000 50,000	5 to 0040 //00 t 0 t	20% of 1500 95% of 240
Manager and Manage	Examples from 2016 KS2 and Sample Papers	110011110000000000000000000000000000000
Write the number that is 5 less than 10 million	89,994 + 7,643 936 + 285 89,994 + 7,643	
Write the number that is one hundred thousand less	Debalancing Fauel difference	Multiplying and dividing fractions
than six million	Rebalancing - Equal difference	Examples from 2016 KS2 and Sample Papers
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