

Falcon Mental Maths Grid 2022

Skills	Year 3	Year 4	Year 5	Year 6
Subitising The ability to instantaneously recognise the number of objects in a small group without the need to count them	Recognising to 10 Numicon pieces, Finger, dots			
Composition of numbers one number can be made up from two or more smaller numbers	Number bonds to 10, 100 then 20 Identify related facts		Number pairs for 1/2dp decimals and to 100. Use related facts	Number pairs for 1/2dp decimals and to 100. Use related facts
Partitioning/ Regrouping a way of splitting numbers into smaller parts	Partition 3 digit numbers canonically and non-canonically	Partition 4 digit numbers canonically and non-canonically	Partition numbers including decimal canonically and non-canonically	
Counting forwards/ backwards Single digit, skip counting forwards and backwards and counting from different intervals	Especially counting back. tenths	Especially over 10,100,1000. Fractions and decimals	Negative numbers, decimals, fractions	Decimals, fractions
Doubles/ Near Doubles/ half	Double single digits and half number to 20	2/3 digits	Include near double	Include near doubles
Bridging through 10, 100, 1000 Count through to 10 then add the remainder on. Subtracting past a multiple of 10	Bridging 10s with add	Bridging 10,100s with add and subtractions		
Power of 10	$X \div 10$	$X$ and $\div 10, 100$	$X$ and $\div 10, 100$ including decimals	$X$ and $\div 10, 100, 1000$ , including decimal
Finding the difference Counting up to work out what is left. Use rather than written subtraction .	Find the difference (close numbers and multiple of 10)	Find the difference (close number and multiple of 100)	Find the difference (close number and from multiples of 1000)	Identify when finding the difference is more efficient.
Times tables and division facts	Focus on: 10,2,5,3,4,8  TTRS: 8 seconds per question (Gigger)	All times tables and division facts. TTRS 6 seconds per question (Breakthrough Artist)	Related facts $2 \times 6 = 12$ $20 \times 6 = 120$ TTRS 4 seconds per question (Headliner)	Identify related facts $2400 \div 6 = 400$ TTRS 2 seconds per question (Rock Legend)
Bridging through 60 (time) Adding times that are more than one whole minute (60 seconds) or one whole hour (60 minutes). Subtracting through an hour.	Add 5- 30 minutes over the hour	Add and subtracting 1-60 minutes over the hour.	Add and subtracting hours and minutes over the hour.	Add and subtracting hours and minutes over the hour.
Compensation adding and subtracting numbers that are close to a multiple of 10 - that ends in the digit 1 or 2, 8 or 9	Add / subtract numbers with 1 or 2 in the ones.	Add / subtract numbers with 8 or 9 in the ones.	Add / subtract numbers with 1,2,8 or 9 in the ones.	Add / subtract numbers with 1,2,8 or 9
rounding	To nearest 10	To nearest 10, 100	To nearest tenth, 10, 100,1000	To nearest hundredth, tenth, 10, 100, 1000
Mental addition and subtraction	Add/subtract single digits and multiples of 10	Add/subtract 2 digit numbers and multiples of 10,100	Add/subtract multiple small numbers, multiples of 10,100,1000.	Add/subtract small numbers quickly.
Reordering Commutative, distributive and associative law	Commutative E.g. $2 \times 5 = 5 \times 2$ $2 + 17 = 17 + 2$	Associate E.g. $(6 + 3) + 4 = 6 + (3 + 4)$ Because $9 + 4 = 6 + 7 = 13$	Distributive E.g. $3 \times (2 + 4) = 3 \times 2 + 3 \times 4$	Re-ordering to be more efficient

