

Key Instant Recall Facts (KIRFs)

Key Instant Recall Facts (KIRFs) are designed to support the development of the arithmetic skills that underpin all maths learning in school. KIRFs help reduce the cognitive load when learning maths and greatly support the development of mental maths agility.

By the end of each term, these are the key facts that we would like the children to be able recall for each year group.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Understand the number 1	Understand the number 2	Understand the number 3	Understand the number 4	Understand the number 5	Understand the number 0
Reception	Say the numbers in order to 5	Recognise numbers to 5	Subitise up to 5	Say the numbers in order to 10	Recall number bonds up to 5 (and related subtraction facts)	Composition of numbers to 10.
Year 1	Recall number bonds of 10 Recall all doubles and halves to 10	Recall all number bonds within 10	Recall all number bonds within 20	Count in 10s to 100 Count in 5s to 50	Count in 2s to 20 Recall all doubles and halves to 20	Recall number bonds to 20
Year 2	Recall number bonds to 100 – multiples of 10	Recall number bonds to 100 – multiples of 5	Recall 5, 10 x table – multiplication and division facts	Recall 2 x table – multiplication and division facts	Double any multiple of 5, 10 up to 50 Halve any multiple of 10 up to 100 Halve any even number up to 100	Recall time facts – 5 and 15 minute intervals. O'clock, half past
Year 3	Recall of number bonds to 100 - any number	Recall 3 x table – multiplication and division facts	Recall 4 x table – multiplication and division facts	Recall 8 x table – multiplication facts	Recall 8 x table – multiplication and division facts	Recall time facts – time to the nearest minute, 24hour clock

Year 4	Recall of number bonds to 1000 – any number	Recall 6 x table – multiplication and division facts	Recall 7x table – multiplication and division facts Recall 9 x table – multiplication and division facts	Recall 11 and 12 x table – multiplication and division facts	Recall all multiplication tables – 6 fact challenge	Recall decimal equivalents – tenths, quarters and halves Recall time facts – convert between the 12 and 24hr clock
Year 5	Recall number bonds to one in tenths Recall number bonds to 10 in tenths and hundredths	Multiply and divide whole numbers by 10, 100, 1000	Apply times table knowledge to decimals where one number is a decimal	Recall fraction, decimal and percentage equivalents – tenths, hundredths, halves and quarters	Recall fraction, decimal and percentage equivalents – fifths, twentieths, twenty-fifths Recall formula for measure – perimeter and area	Recall prime numbers to 19 Recall square numbers to 144
Year 6	Recall pairs of numbers which total 1 – up to 3 decimal places applying knowledge of number bonds	Recall order of operations Multiply and divide decimal numbers by 10, 100, 1000	Apply times table knowledge to decimals where both numbers are a decimal	Recall percentage and decimal equivalents of non-unit common fractions	Recall formula for measure – perimeter and area of quadrilaterals, triangles and parallelograms. Volume of cuboids	Consolidate learning and fluency