

KIRFS

As the study of mathematics requires pupils to be fluent in the rapid recall of certain mathematical facts, pupils at Gilberdyke Primary work daily on carefully selected KIRFs (Key Instant Recall Facts) at the beginning of each maths lesson. The ability to know these facts effortlessly enables pupils to focus their attention on and fully develop their understanding of more complex calculations and problem solving.

To ensure fluency, the KIRFs are taught daily for 5-10 minutes and each one is studied for a full half term. The KIRFs are progressive and are planned to ensure the pupils have the fluency required to enable them to instantly recall these facts. Teachers use ongoing formative assessments during these sessions to plan progress within each KIRF and summative assessments are conducted at the end of each half term to check learning and to inform future planning.

	Term					
	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 1	To read and write numbers to 10 in numerals	To know number bonds to 10	To compare numbers to 10 using $<$, $>$ and $=$	To count in twos. To know doubles and halves to 10	To make and talk about simple arrays	To find $\frac{1}{4}$ and $\frac{1}{2}$ of a quantity
Year 2	To know number bonds for each number to 20	To count, read and write numbers to 100 in numerals	To know the multiplication & the division facts for the 2 times tables	To know the multiplication & the division facts for the 5 times tables	To know the multiplication & the division facts for the 10 times tables	To know doubles and halves of numbers to 20
Year 3	To know number bonds to 100	To count in multiples of 50 or 100	To find 10 or 100 more/less than a given number	To know the multiplication & the division facts for the 3 times tables	To know the multiplication & the division facts for the 4 times tables	To know the multiplication & the division facts for the 8 times tables
Year 4	To know the multiplication & the division facts for the 6 times tables	To know the multiplication & the division facts for the 9 & 11 times tables	To know the multiplication & the division facts for the 7 times tables	To know the multiplication & the division facts for the 12 times tables	To know the multiplication and division facts for all the times tables up to 12×12	To identify equivalent fractions
Year 5	To round numbers to 1 million to the nearest 10, 100, 1,000	To identify multiples and factors up to 12×12	To identify prime numbers up to 50	To recall square numbers up to 12^2 and the square roots	To know the first 5 cube numbers	To convert between improper fractions and mixed fractions

Year 6	To count in powers of 10, forwards and backwards with numbers up to 10 million	To identify common factors of a pair of numbers	To find fractions of amounts	To know common fraction, decimal and percentage equivalents	To divide and multiply by 10, 100 and 1,000	To find simple percentages of amounts (1%, 5%, 10%)
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