K.I.R.Fs

Key Instant Recall Facts

What are KIRFs and why are they important?

KIRFs are the 'Key Instant Recall Facts' that children need to secure during their primary years. They include facts such as number bonds and times tables. They are particularly useful when calculating, adding, subtracting, multiplying and dividing but also underpin many other areas of mathematics. For example, in order to find equivalent fractions in year 6, children need to be able to rapidly recall their knowledge of common multiples (numbers in particular times tables). When children have quick access to a bank of facts, which incur little cost to working memory, they have more capacity to think about more complex problems that draw on these facts. We have noticed that without regular rehearsal, these facts are forgotten so it is essential they are practised regularly and embedded in children's long-term memory so they can be recalled quickly and accurately.

Childcare, education and community services for all
Bridgewater

Overview of Key Instant Recall Facts (KIRFs) (June 2025)

	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Touch count to 3.	Name numbers in order to 10.	Recite the number names in order to 20 and beyond.	Recite the number names in order to 100. Know number bonds to 10. Know number bonds to 20.	Know number bonds for all numbers up to 20. Count in 50s and 100s.	Know number bonds to 100. Count in 25s and 1000s.	Know the multiplication and division facts for all times tables up to 12 x 12.	Know the multiplication and division facts for all times tables up to 12 x 12.
Autumn 2	Recite the number names in order to 5. Touch count to 5.	Recognise quantities without counting, up to 10 (subitise).	Add 0 or 1 to a number. Add 2 to a number.	Know doubles and halves of numbers to 20. Know near doubles to 10. Use bridging and compensation for addition to 10 + 10.	Count in 3's. Know the multiplication and division facts for the 3 times table (up to 12 x 3).	Count in 6s. Know the multiplication and division facts for the 6 times table (up to 12 x 6).	Find factor pairs of a number	Identify common factors of a pair of numbers.
Spring 1	Use the positional language: under…	Compare 2 numbers by saying which is more or less. Say 1 more than a given number up to 10. Say 1 less than a given number to 10.	Know number bonds to 10. Know near doubles to 5.	Count in 2s. Know the multiplication and division facts for the 2 times table up to 12 x 2	Count in 4s. Know the multiplication and division facts for the 4 times table up to 12 x 4	Count in 9s.and 11s Know the multiplication and division facts for the 9 and 11 times tables (up to 12x9 and 12x11)	Identify prime numbers up to 20. Recall square numbers up to 144 and their square roots.	Identify prime numbers up to 50. Know the square roots of square numbers to 15 x 15.
Spring 2	Sort objects and say which group is more/less. Name simple shapes.	Recite number names in order to 20.	Add 10 to a number. Know odd and even numbers to 20.	Count in 5s.and 10s Know the multiplication and division facts for the 10 and 5 times tables (up to 12 x 10 and 12 x 5).	Count in 8s. Know the multiplication and division facts for the 8 times table up to 12 x 8.	Count in 7s.and 12s Know the multiplication and division facts for the 7 and 12 times tables (up to 12 x 7 and 12 x 12).	Know the decimal and percentage equivalents of the fractions ½, ¼, ¾, 1/10, 1/5,3/5 an 9/10 Know the fraction, decimal, percentage equivalents of hundredths.	Know the conversions between decimal, percentages and fractions.
Summer 1	Recognise and recite the number names to 5.	Partition numbers to 5 into 2 groups. Recall number bonds of numbers 0 -5, including partitioning facts.	Count in 2s to 20. Count in 10s to 100. Count in 5s to 50	Count in 3s to 36	Count up and down in tenths. Recognise decimal equivalents of tenths.	Know decimal equivalents of the fractions ½, ¼, ¾, tenths and hundredths.	Know decimal number bonds to 1 and 10.	Revise previous KIRFs
Summer 2	Recite number names in order to 10,	Automatically recall double facts up to 5 x 5	Know doubles and halves of numbers to 20.	Begin to know the 3 times tables from 1 x 3 to 6 x 3	Multiply and divide 1 digit numbers by 10.	Multiply and divide 1 and 2-digit numbers by 10 and 100.	Multiply and divide whole numbers and decimals by 10, 100 and 1000.	Revise previous KIRFs