Key Instant Recall Facts (KIRFs)

By the end of each half term, children should know the following facts. The aim is for them to recall these facts instantly. Please see our school website for guidance and examples of the KIRFs.

	Reception	Year 1	Year 2	Year 3	Year 4*	Year 5	Year 6
Aut 1	Recognise quantities, without counting, to 5.	I can count in 1s (up to 50), 2s (up to 20), 5s (up to 50) and 10s (up to 100).	I know number bonds **to** 20. For example: 14 + 6 = 20 5 + 15 = 20 20 = 3 + 17	I know number bonds for **all** numbers to 20. For example: 7 + 8 = 15 12 + 4 = 16 13 = 8 + 5	I know number bonds to 100.	I know the multiplication and division facts for all times tables up to 12 × 12. (Revision)	I know the multiplication and division facts for all times tables up to 12 × 12. (Revision)
Aut 2	(Subitise)	I know number bonds for **each** number to 6. For example: 2 + 1 = 3 3 + 2 = 5 4 + 2 = 6	I know the multiplication and division facts for the **2** times table.	I know the multiplication and division facts for the **3** times table.	I know the multiplication and division facts for the **6** times table.	I can identify prime numbers up to 20.	I can identify common factors of a pair of numbers.
Spr 1	Name numbers in order to 10 and compare two numbers by saying which is more or less.	I know doubles and halves of numbers to 10.	I know doubles and halves of numbers to 20.	I can recall facts about durations of time.	I know the multiplication and division facts for the **9** and **11** times tables.	I can find factor pairs of a number.	I can convert between decimals, fractions and percentages.
Spr 2	Say 1 more than a given number up to 10.	I know number bonds **to** 10.	I know the multiplication and division facts for the **10** times table.	I know the multiplication and division facts for the **4** times table.	I can recognise decimal equivalents of fractions.	I can recall square numbers up to 144 and their square roots.	I can identify prime numbers up to 50.
Sum 1	Partition numbers to 5 into two groups.	I can tell the time (o'clock and half past).	I can tell the time (quarter hour intervals and 5 minutes).	I can tell the time (5 minutes and nearest minute).	I know the multiplication and division facts for the **7** times table.	I know decimal number bonds to 1 and 10.	Know the decimal and percentage equivalents of the fractions ½, ¼, ¾, ⅓, ⅔, tenths and fifths
Sum 2	Number bonds to 5.	I know number bonds for **each** number to 10.	I know the multiplication and division facts for the **5** times table.	I know the multiplication and division facts for the **8** times table.	I can multiply and divide single-digit numbers by 10 and 100.	I can recall metric conversions.	Know the square roots of square numbers to 15 x 15

*Children in Year 4 will be taking the 'Multiplication Tables Check' to determine whether year 4 pupils can fluently recall their multiplication tables.

KIRFs (Key Instant Recall Facts) are designed to support the development of the mental skills that underpin much of the maths work in schools. They are particularly useful when calculating, be it adding, subtracting, multiplying or dividing.

An important part of maths development has always been rote learning of certain maths facts. For many years this has included practising times tables and addition facts, such as number bonds and doubles. Each half term children will be assessed on Key Instant Recall Facts (KIRFs) that will be taught in school but also need to be practised at home as well.

It is important that they know these facts thoroughly and can recall them instantly. Whilst children have a wide range of abilities in mathematics, the KIRFs are designed to be a set of facts that need to be learnt thoroughly as they build on each other year on year. Again, we stress that the children must aim to know their KIRFs inside out, back to front and with instant recall.

We strongly encourage you to engage with your children in the learning of their KIRFs and find fun and practical ways to do this. There are many online tools that you can use such as Times Table Rockstars for Years 2-6, Daily ten and Hit the button which can both be found through these web links.

https://www.topmarks.co.uk/maths-games/daily10

https://www.topmarks.co.uk/maths-games/hit-the-button