



Maths Homework – KIRFs

Key Instant Recall Facts (KIRFs) are the foundation of fluency in maths. They are particularly useful for calculations and are a solution to children relying on inefficient methods such as counting on fingers or drawing hundreds of dots. The instant recall of facts helps incredibly with mental agility in mathematics and knowing these key facts is crucial when children move onto written calculations and abstract methods.

For children to become more efficient in recalling them easily, they need to be **practised frequently** and **in short bursts**. Because of this, each year group has been allocated six focuses throughout the year (in line with the National Curriculum and age-related expectations) with the expectation that these skills be consistently practised at home, alongside lessons at school, to embed key knowledge and ensure children become more confident and fluent with number. Progress against each KIRF will be monitored every Friday during maths lessons.

| | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|-----------------|--|--|--|--|--|--|--|
| Autumn 1 | Count forwards from 0 to 5 & backwards from 5 to 0 | Read & write numbers 0 to 10 in numerals & words | Know the number bonds for 20 | Know addition & subtraction facts up to 20 | Count in multiples of 1000 & 25 | Know one & two decimal place number bonds for 1 and 10 | Derive multiplication & division facts using multiples of 10 & decimal numbers |
| Autumn 2 | Count forwards from 0 to 10 & backwards from 10 to 0 | Know the number bonds for numbers 1 to 6 | Know the multiplication & division facts for the 2 times table | Know number bonds to 100 | Know multiplication & division facts for 6 times table | Know multiplication & division facts up to 12×12 | Identify common factors of a pair of numbers |
| Spring 1 | Partition numbers to 5 into two groups | Know doubles & halves of numbers to 10 | Know doubles and halves of numbers to 20 | Know multiplication & division facts for 3 times table | Know multiplication & division facts for 9 & 11 times tables | Find factor pairs of numbers | Know common fraction, decimal and percentages equivalences |
| Spring 2 | Count forwards from 0 to 20 & backwards from 20 to 0 | Know the number bonds for numbers 1 to 10 | Know multiplication & division facts for 10 times table | Know multiplication & division facts for 4 times table | Know multiplication & division facts for 7 and 12 times tables | Identifying prime numbers within 100 | Know up to 12^2 and 5^3 |
| Summer 1 | Count, read & write numerals to 20 | Read & write numbers 1 to 20 in numerals & words | Count, read & write numbers to 100 in words & numerals | Count in multiples of 50 & 100 | Know multiplication & division facts up to 12×12 | Recall square numbers up to 12^2 and their square roots | Know doubles and halves of 2-digit decimals |
| Summer 2 | Know one more & one less than a number (to 20) | Know the number bonds for 20 | Know multiplication & division facts for 5 times table | Know multiplication & division facts for 8 times table | Recognise decimal equivalents of fractions | Count forwards & backwards in steps of powers of 10 for any number up to 1,000,000 | Know the formulae for finding the area of different shapes |