



Highfield Primary School

Key Instant Recall Facts (KIRFs)

To develop your child's fluency and mental maths skills, we are introducing KIRFs throughout school. KIRFs are a way of helping your child to learn by heart, key facts and information which they need to have instant recall of.

KIRFs are designed to support the development of mental maths skills that underpin much of the maths work in our school. They are particularly useful when calculating, adding, subtracting, multiplying or dividing. They contain number facts such as number bonds and times tables that need constant practise and rehearsal, so children can recall them quickly and accurately.

Instant recall of facts helps enormously with mental agility in maths lessons. When children move onto written calculations, knowing these key facts is very beneficial. For your child to become more efficient in recalling them easily, they need to be practised frequently and for short periods of time.

Each half term, children will focus on a Key Instant Recall Fact (KIRF) to practise and learn at home for the half term. They will also be available on our school website under the maths section and each child will receive a copy to keep at home. The KIRFs include practical ideas to assist your child in grasping the key facts and contain helpful suggestions of ways in which you could make this learning interesting and relevant. They are not designed to be a time-consuming task and can be practised anywhere - in the car, walking to school, etc. Regular practice - little and often - helps children to retain these facts and keep their skills sharp. Throughout the half term, the KIRFs will also be practised in school and your child's teacher will assess whether they have been retained.

Over their time at primary school, we believe that - if the KIRFs are developed fully - children will be more confident with number work, understand its relevance, and be able to access the curriculum much more easily. They will be able to apply what they have learnt to a wide range of problems that confront us regularly.



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Key Instant Recall Facts

Year 4 – Autumn 1

Know number bonds to 100.

Count in 25s and 1000s.

By the end of this half term, children should know the following facts. The aim is for them to recall these instantly.

Here are some examples

$$60 + 40 = 100 \quad 37 + 63 = 100$$

$$40 + 60 = 100 \quad 63 + 37 = 100$$

$$100 - 40 = 60 \quad 100 - 37 = 63$$

$$100 - 60 = 40 \quad 100 - 63 = 37$$

$$75 + 25 = 100 \quad 48 + 52 = 100$$

$$25 + 75 = 100 \quad 52 + 48 = 100$$

$$100 - 25 = 75 \quad 100 - 52 = 48$$

$$100 - 75 = 25 \quad 100 - 48 = 52$$

Number bonds to 100

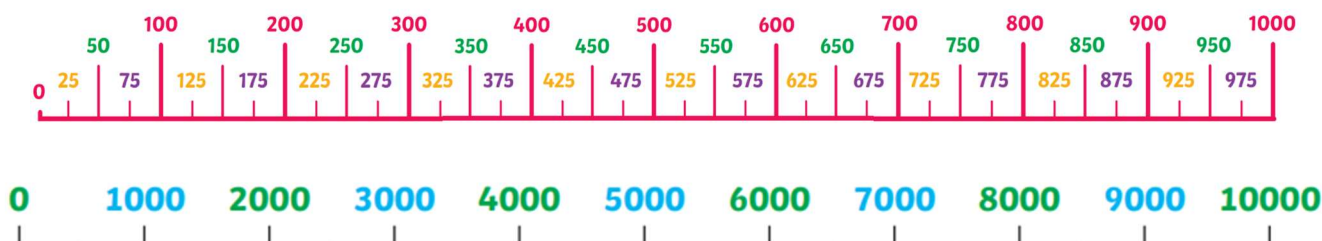
This list includes some examples of facts that children should know. They should be able to answer questions including missing number questions.

e.g. $49 + \square = 100$
or $100 - \square = 72$

Key Vocabulary

- add
- take away
- less than
- how many more
- difference

Try counting on in 25s from 0 or any multiple of 25.



Top Tips...

The secret to success is practising little and often. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey?

Buy one get three free - If your child knows one fact (e.g. $85 + 15 = 100$), can they tell you the other three facts in the same fact family?

Use number bonds to 10 - How can your number bonds to 10 help you work out number bonds to 100?

Roll a number - Use 2 dice to create a 2 digit number - which number do you add to this to make 100?