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know, love, serve; God, Ourselves & Others

EYFS Mathematics

Key Instant Recall Facts

KIRFs

To develop your child's fluency and mental maths skills, we are introducing **KIRFs** (Key Instant Recall Facts) 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. We will also have a permanent 'Maths Mastery' display in our corridor. 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.



Key Instant Recall Facts

EYFS – Autumn 1

I can say the numbers from 0 to 5 and back from 5 to 0 in order

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

In order:

0, 1, 2, 3, 4, 5

And back again:

5, 4, 3, 2, 1, 0

Key Vocabulary

Zero

One

Two

Three

Four

Five

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? You do not need to practise them all at once; perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

Use practical resources, for example –

- Counting objects around the home, making piles of 0, 1, 2, 3, 4 and 5, and then counting them in order to 5 and back.....use sweets, lego, fruit, stones, leaves etc
- Looking for numbers up to 5 around the home and when you are out and about.....can they count on or back from that number?
- Singing number songs where the numbers are going backwards, e.g Five little speckled frogs, Five little monkeys jumping on the bed etc.



Key Instant Recall Facts

EYFS – Autumn 2

I can say the numbers from 0 to 10 and back from 10 to 0 in order

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

In order:

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

And back again:

10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0

Key Vocabulary

Six

Seven

Eight

Nine

Ten

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? You do not need to practise them all at once; perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

Use practical resources –

- Counting objects around the home, making piles of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, and then counting them in order to 10 and back.....use sweets, lego, fruit, stones, leaves etc
- Looking for numbers up to 10 around the home and when you are out and about.....can they count on or back from that number?
- What can they do in 10 seconds? Take it in turns with your child to count while the other performs the task, e.g star jumps, building a lego tower etc.



Key Instant Recall Facts EYFS – Spring 1

I can partition numbers, to 5, into two groups

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

Zero and five make five.

One and four make five

Two and three make five

Key Vocabulary

_____ and _____ make

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? You do not need to practise them all at once; perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

Use practical resources –

- Using items around the house to find different ways of making 5, e.g one blue teddy and four red teddies. One and four make five.
- Making up stories with items around the home, e.g there are 2 cars in the car park and 3 more cars arrive, how many cars altogether? Two and three make five.
- Asking questions during daily routines, e.g you have 1 sausage on your plate and I have 4 sausages on my plate, how many sausages altogether? One and four make five.



Key Instant Recall Facts EYFS – Spring 2

I can partition numbers, to 10, into two groups

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

Zero and ten make ten.

One and nine make ten.

Two and eight make ten.

Three and seven make ten.

Four and six make ten.

Five and five make ten.

Key Vocabulary

_____ and _____ make

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? You do not need to practise them all at once; perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

Use practical resources –

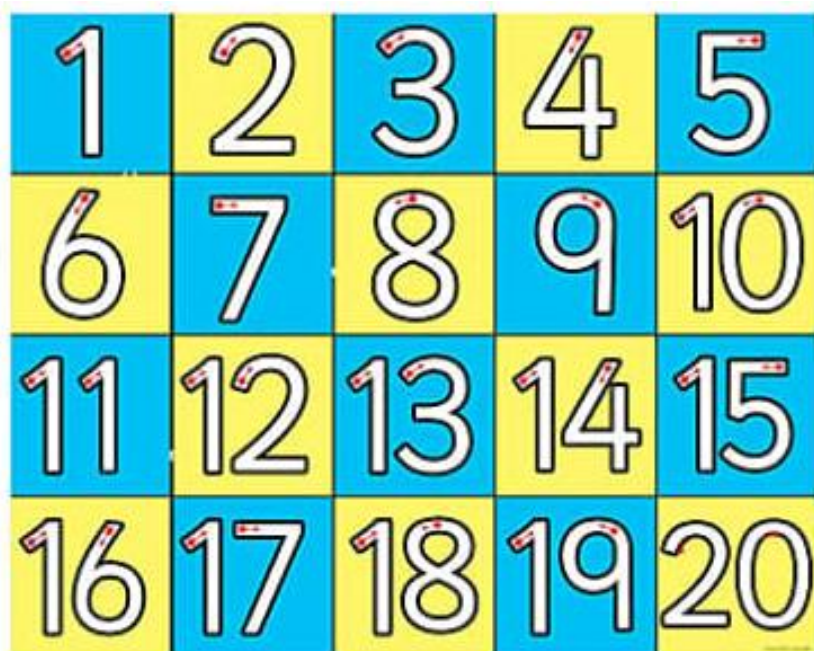
- Using items around the house to find different ways of making 10, e.g one blue teddy and nine red teddies. One and nine make ten.
- Making up stories with items around the home, e.g there are 2 cars in the car park and 8 more cars arrive, how many cars altogether? Two and eight make ten.
- Asking questions during daily routines, e.g you have 4 sausages on your plate and I have 6 sausages on my plate, how many sausages altogether? Four and six make ten.
- Jack Hartmann Number bonds to 10 singing and moving you tube clip!
<https://www.youtube.com/watch?v=ID9tjBUiXs0> Number bonds to 10
<https://www.youtube.com/watch?v=ch7KzI3n2Zk> Number pairs to 10



Key Instant Recall Facts EYFS – Summer 1

I can count, read and write numbers to 20

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



Key Vocabulary

Eleven
Twelve
Thirteen
Fourteen
Fifteen
Sixteen
Seventeen
Eighteen

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? You do not need to practise them all at once; perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

Use practical resources –

- Counting objects around the home finding methods of counting accurately, e.g moving each object as it is counted.....use sweets, lego, fruit, stones, leaves etc
- Looking for numbers up to 20 around the home and when you are out and about.
- Count objects around the home and then write the correct numeral to match the quantity counted. Repeat with other numbers. Discuss which number is the biggest/smallest or is more/less than the other. How do you know?



Key Instant Recall Facts

EYFS – Summer 2

I can use physical representations to add and subtract two single digit numbers and count on or back to find the answer.

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

Key Vocabulary

Count on

_____ add _____ makes _____

Count back

_____ take away _____ makes _____

Children should count on or back to find the answer.

e.g. Child counts 3 cars. They then add another 2 cars.

Child says 'Four, five' (counts on) to find answer.

OR Child counts 4 books. Then take 3 books away.

Child says 'Three, two, one' (counts back) to find answer.

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? You do not need to practise them all at once; perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

Use practical resources –

- Making up stories with items around the home, e.g there are 2 cars in the car park and 8 more cars arrive, how many cars altogether? Count on from the 2 to find the answer.
- Asking questions during daily routines, e.g you have 8 chips on your plate and I steal 2, how many are left? Count back from 8 to find the answer.
- A number track (like the one in the picture) is very useful to practise counting on and back.



