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LotC Mark (Gold)

KIRFS – Key Instant Recall Facts

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

Year 1 – Autumn 1

I know number bonds for each number to 6.

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

$0 + 1 = 1$	$0 + 4 = 4$	$0 + 6 = 6$
$1 + 0 = 1$	$1 + 3 = 4$	$1 + 5 = 6$
	$2 + 2 = 4$	$2 + 4 = 6$
$0 + 2 = 2$	$3 + 1 = 4$	$3 + 3 = 6$
$1 + 1 = 2$	$4 + 0 = 4$	$4 + 2 = 6$
$2 + 0 = 2$		$5 + 1 = 6$
	$0 + 5 = 5$	$6 + 0 = 6$
$0 + 3 = 3$	$1 + 4 = 5$	
$1 + 2 = 3$	$2 + 3 = 5$	
$2 + 1 = 3$	$3 + 2 = 5$	
$3 + 0 = 3$	$4 + 1 = 5$	
	$5 + 0 = 5$	

Key Vocabulary

What is 3 **add** 2?

What is 2 **plus** 2?

What is 5 **take away** 2?

What is 1 **less than** 4?

They should be able to answer these questions in any order, including missing number questions e.g. $3 + \bigcirc = 5$ or $4 - \bigcirc = 2$.

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 don't 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 – Your child has one potato on their plate and you give them three more. Can they predict how many they will have now?

Make a poster – We use Numicon at school. You can find pictures of the Numicon shapes here: bit.ly/NumiconPictures – your child could make a poster showing the different ways of making 5.

Play games – You can play number bond pairs online at [Save The Whale: Learn bonds of 10, 9, 8, 7, 6 or 5 \(ictgames.com\)](http://Save The Whale: Learn bonds of 10, 9, 8, 7, 6 or 5 (ictgames.com)) and then see how many questions you can answer in just one minute.

Key Instant Recall Facts

Year 1 Autumn 2

I know the days of the week, months of the year and seasons.

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

Children need to know the months of the year in order and also talk about the seasons of the year and the order they happen.

January

February

March

April

May

June

July

August

September

October

November

December

Spring Summer Autumn Winter

Key Vocabulary

12 months in one year

Four seasons

Top Tips

The secret to success is practicing **little** and **often**. If you would like more ideas, please speak to your class teacher.

Talk about time: - Discuss what time in the year things happen. When does your child have their birthday? When is Christmas? When do we celebrate Harvest? When does blossom appear on the trees?

Calendars: - Make sure that you have a calendar to see the months pass during the year. You could also give your child some responsibility for marking off or turning over to the new month on a home calendar

Read books about time – Lots of story books have opportunities to talk about the new seasons and predict the time of the year the events take place.

Key Instant Recall Facts

Year 1 Spring 1

I know number bonds for each number to 10

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

$0 + 7 = 7$	$0 + 8 = 8$	$0 + 9 = 9$	$0 + 10 = 10$
$1 + 6 = 7$	$1 + 7 = 8$	$1 + 8 = 9$	$1 + 9 = 10$
$2 + 5 = 7$	$2 + 6 = 8$	$2 + 7 = 9$	$2 + 8 = 10$
$3 + 4 = 7$	$3 + 5 = 8$	$3 + 6 = 9$	$3 + 7 = 10$
$4 + 3 = 7$	$4 + 4 = 8$	$4 + 5 = 9$	$4 + 6 = 10$
$5 + 2 = 7$	$5 + 3 = 8$	$5 + 4 = 9$	$5 + 5 = 10$
$6 + 2 = 8$	$6 + 2 = 8$	$6 + 3 = 9$	$6 + 4 = 10$
$7 + 1 = 8$	$7 + 1 = 8$	$7 + 2 = 9$	$7 + 3 = 10$
$8 + 0 = 8$	$8 + 0 = 8$	$8 + 1 = 9$	$8 + 2 = 10$
		$9 + 0 = 9$	$9 + 1 = 10$
			$10 + 0 = 10$

Key Vocabulary

What do I **add** to 5 to make 10?

What is 10 **take away** 6?

What is 3 **less than** 10?

How many more than 2 is 10?

They should be able to answer these questions in any order, including missing number questions e.g. $1 + \bigcirc = 10$ or $9 - \bigcirc = 8$.

Top Tips

The secret to success is practicing **little** and **often**. Use time wisely. Can you practice these KIRFs while walking to school or during a car journey? You don't need to practice 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.

Key Instant Recall Facts

Year 1 – Spring 2

I can count forward and backward in steps of 2,5 and 10

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

$0 + 10 = 10$	$2 + 8 = 10$	$4 + 6 = 10$
$10 + 0 = 0$	$8 + 2 = 10$	$6 + 4 = 10$
$10 - 10 = 0$	$10 - 8 = 2$	$10 - 6 = 4$
$10 - 0 = 10$	$10 - 2 = 8$	$10 - 4 = 6$
$1 + 9 = 10$	$3 + 7 = 10$	$5 + 5 = 10$
$9 + 1 = 10$	$7 + 3 = 10$	$10 - 5 = 5$
$10 - 9 = 1$	$10 - 7 = 3$	
	$10 - 3 = 7$	

Key Vocabulary

What is 3 **add** 2?

What is 2 **plus** 5?

What is 5 **take away** 2?

What is 1 **less than** 4?

They should be able to answer these questions in any order, including missing number questions e.g. $6 + \bigcirc = 10$ or $10 - \bigcirc = 3$.

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 don't 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 – You could build towers of ten using Lego bricks. For example: My tower has seven red bricks, how many green bricks do I need to make 10?

Make a poster - We use Numicon at school. You can find pictures of the Numicon shapes here : [Numicon pcms Shapes, Numerals and Number Words 1-10 \(Actual Size\).pdf \(oup.com\)](#) – your child could make a poster showing different ways of making 10.

Play games – You can play number bond pairs online at [Hit the Button - Quick fire maths practise for 6-11 year olds \(topmarks.co.uk\)](#) and then see how many questions you can answer in just one minute.

Key Instant Recall Facts

Year 1 – Summer 1

I can count forward and backward in steps of 2, 5 and 10

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

Children should be able to start at zero and then count on

0 2 4 6 8 10 12 14 16 18 20

0 5 10 15 20 25 30 35 40 45 50

0 10 20 30 40 50 60 70 80 90

When confident they should try counting backward steps from any of the above numbers

Key Vocabulary

How many tens can you count?

How many 2s do we count to make 10?

Top Tips

The key to learning fun! Try taking it in turns to SHOUT the times tables e.g. for the 2 x table, one person shouts 2 and the other shouts 4.

Use fingers to count each step 2 4 6 8 10 12 so children see they have counted six lots of two to make 12.



Key Instant Recall Facts

Year 1 Summer 2

I know doubles and halves of numbers to 10.

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

$0 + 0 = 0$

$\frac{1}{2} \text{ of } 0 = 0$

$1 + 1 = 2$

$\frac{1}{2} \text{ of } 2 = 1$

$2 + 2 = 4$

$\frac{1}{2} \text{ of } 4 = 2$

$3 + 3 = 6$

$\frac{1}{2} \text{ of } 6 = 3$

$4 + 4 = 8$

$\frac{1}{2} \text{ of } 8 = 4$

$5 + 5 = 10$

$\frac{1}{2} \text{ of } 10 = 5$

$6 + 6 = 12$

$7 + 7 = 14$

$8 + 8 = 16$

$9 + 9 = 18$

$10 + 10 = 20$

Key Vocabulary

What is **double** 9 ?

What is **half** of 6 ?

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 don't 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.

Ping Pong – In this game, the parent says, "Ping," and the child replies, "Pong." Then the parent says a number and the child doubles it. For a harder version, the adult can say, "Pong." The child replies, "Ping," and then halves the next number given.

Practise online – Go to [Hit the Button - Quick fire maths practise for 6-11 year olds \(topmarks.co.uk\)](http://topmarks.co.uk) and see how many questions you can answer.