



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?



Key Instant Recall Facts

How many are there altogether?

They should be able to answer these questions in any order, including as subtraction statements eg: $6 - 5 = 1$ and also missing number questions e.g. $3 + \quad = 5$ or $4 - \quad = 2$.

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.

Year 1 - Autumn 1

Make it fun!

- ▶ Use practical resources them three more. Can they predict how many they will have now?- Your child has one potato on their plate and you give
- ▶ Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat and then convert to numbers i.e. say '2' and they reply '4' (for number bonds to 6)
- ▶ What's hidden? There are 5 beans on this plate, I hide some under a beaker - how many have I hidden?
- ▶ Make a set of cards and play snap by matching the number bonds.
- ▶ Play a 'memory game' to find matching number bonds.
- ▶ Dominoes: Connect two dominoes to make the bond.
- ▶ Songs and rhymes e.g. 5 speckled frogs, 10 in a bed, 10 green bottles
- ▶ http://www.ictgames.com/save_the_whale_v4.html Select bonds to 6



Key Instant Recall Facts

- ▶ **Timed Games:** How well are you doing? How many questions can you answer in 2 minutes. Can you beat your own record?

Broaden and apply

There are 5 ladybirds on the leaf. Two fly away, how many are left? 3 ladybirds! How do you know? Can you explain it?

I have 2p in my purse. How much more do I need to make 6p? Why?

I have 5 cm of ribbon, I cut off 2 cm. How much ribbon is left? Are you sure? How do you know?

How many ways can you make 6 using 3 numbers? (example; 1 + 1+4)

$6 - \square = \square$ How many ways can you make this true?

$\square + \square = \square + \square$ What numbers could you put in here to make the sentences true?

<http://nrich.maths.org/6227> Find the Difference problem

<http://nrich.maths.org/37> Homes problem

<http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html> Choose game 1

Year 1 - Autumn 2

I know doubles and halves of numbers to 10.

By the end of this half term, children should know the following facts.

Key Instant Recall Facts

The aim is for them to recall these facts instantly.

$0 + 0 = 0$

$\text{Double } 0 = 0$

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

$1 + 1 = 1$

$\text{Double } 1 = 2$

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

$2 + 2 = 4$

$\text{Double } 2 = 4$

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

$3 + 3 = 6$

$\text{Double } 3 = 6$

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

$4 + 4 = 8$

$\text{Double } 4 = 8$

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

$5 + 5 =$

$\text{Double } 5 = 10$

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

10

$6 + 6 =$

$\text{Double } 6 = 12$

12

$\text{Double } 7 = 14$

$7 + 7 =$

$\text{Double } 8 = 16$

14

$\text{Double } 9 = 18$

$8 + 8 =$

$\text{Double } 10 = 20$

16

$9 + 9 =$

18

$10 +$

$10 = 20$

Top Tips

Key Vocabulary

What is **double** 9?

What is **half** of 6?

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.

Year 1 - Autumn 2

Make it fun!

- ▶ Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat and then convert to numbers i.e. say '2' and they reply '4' (doubles)



Key Instant Recall Facts

- ▶ Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat and then convert to numbers i.e. say '6' and they reply '3' (halves)
- ▶ Make a set of cards and play snap by matching the doubles and halves.
- ▶ <http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html>
- ▶ <http://www.snappymaths.com/multdiv/doublesto6/interactive/doublesto6picimm/doublesto6picsimm.htm>
- ▶ Make up your own songs and rhymes
- ▶ Timed Games: How well are you doing? How many questions can you answer in 2 minutes. Can you beat your own record?
- ▶ <http://www.ictgames.com/robindoubles.html>

Broaden and apply

If there are 10 sweets, how many children can have two sweets each? How do you know?

What would happen if there were 11 sweets instead?

Double $\square = \square$ How many ways can you complete this? What do you notice?

A plant is 1cm tall. Each day it doubles in height. How tall will it be on the 3rd day?

Key Instant Recall Facts

Year 1 - Spring 1

I know number bonds 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.

$0 + 10 = 10 \quad 2 + 8 = 10 \quad 4 + 6 = 10$

$10 + 0 = 10 \quad 8 + 2 = 10 \quad 6 + 4 = 10$

$10 - 10 = 0 \quad 10 - 8 = 2 \quad 10 - 6 = 4$

$10 - 0 = 10 \quad 10 - 2 = 8 \quad 10 - 4 = 6$

$9 + 1 = 10 \quad 7 + 3 = 10 \quad 10 - 5 = 5 \quad 1 + 9 = 10$
 $10 - 9 = 1 \quad 10 - 7 = 3 \quad 3 + 7 = 10 \quad 5 + 5 = 10$
 $10 - 1 = 9 \quad 10 - 3 = 7$

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. $6 + \bigcirc = 10$ 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.



Key Instant Recall Facts

Year 1 - Spring 1

Make it fun!

- ▶ Play then convert to numbers i.e. say '2' and they reply number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat and '8'
- ▶ What's hidden? There are 10 beans on this plate, I hide some under a beaker - how many have I hidden?
- ▶ Make a set of cards and play snap by matching the number bonds.
- ▶ Play a 'memory game' to find matching number bonds.
- ▶ Dominoes: Connect two dominoes to make the bond.
- ▶ Songs and rhymes e.g. 5 speckled frogs, 10 in a bed, 10 green bottles
- ▶ http://www.ictgames.com/save_the_whale_v4.html Select bonds to 10
- ▶ <http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html>
- ▶ <http://www.amblesideprimary.com/ambleweb/mentalmaths/numberbond.html>
Select bonds to 10
- ▶ Timed Games: How well are you doing? How many questions can you answer in 2 minutes. Can you beat your own record?

Broaden and apply - enrichment

There are 10 children at the park. Two go away, how many are left? How do you know?

I have 6p in my purse. How much more do I need to make 10p? Why?

Key Instant Recall Facts

I have 10 cm of ribbon, I cut off 7 cm. How much ribbon is left? How do you know?
How many ways can you make 10 using 3 numbers? (example; 3 + 3 + 4) 10 -

$\square = \square$ How many ways can you make this true?

$\square + \square = \square + \square$ What numbers could you put in here to make the sentences true?

<http://nrich.maths.org/7233> Pairs of numbers problem

<http://nrich.maths.org/1216> Totality

<http://nrich.maths.org/6589> Strike it out

<http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html> Bonds to 20

Year 1 – Spring 2

I can tell the time to the nearest half hour.

Children need to be able to tell the time using a clock with hands. This target can be broken down into several steps.

- ▶ I can tell the time to the nearest hour.
- ▶ I can tell the time to the nearest half hour.



Key Vocabulary

Twelve o'clock

Half past two

Top Tips



Key Instant Recall Facts

The secret to success is practising **little** and **often**.

Talk about time and discuss what time things happen:

- When does your child wake up?
- What time do they eat breakfast?
- What time do they go to school?
- What time is lunch?

Make sure that you have an analogue clock (with hands) visible in your house or that your child wears a watch with hands.

Year 1 - Spring 2

Make it fun!

- ▶ Play "What's the time Mr Wolf?"
- ▶ <http://tpet.co.uk/mrwolf/playfree.html> What time is it Mr Wolf? Set hour and half hour options first
- ▶ Sing songs and chants like Hickory Dickory Dock
- ▶ Read books about time eg:
 - The Clock Struck One: A Time-Telling Tale by Trudy Harris, Carrie Hartman
 - Cluck O'clock by Kes Gray
 - It's About Time. Stuart J. MurphyPlease ask your class teacher for suggestions of other books.
- ▶ <http://www.iboard.co.uk/iwb/Time-Reader-Analogue-466> An interactive clock which can be set and then says the time out loud

Key Instant Recall Facts

- ▶ <http://www.primarygames.com/time/question1.htm>
- ▶ <http://resources.oswego.org/games/StopTheClock/sthec1.html>

Broaden and apply - enrichment

How long is until?

<http://www.snappymaths.com/other/measuring/time/time.htm> useful worksheets

<http://nrich.maths.org/6071/note> Stop the clock problem

<http://nrich.maths.org/6609/note> Times of the day problem

<http://nrich.maths.org/4807> Time Line

Year 1 - Summer 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
3 = 7	4 + 4 = 8	4 + 5 = 9	4 + 6 = 10
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

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?



Key Instant Recall Facts

$$9 + 0 = 9 \quad 9 + 1 = 10$$
$$10 + 0 = 10$$

Children should be able to answer these questions in any order, including subtraction facts eg: $8 - 1 = 7$ and missing number questions e.g. $1 + \bigcirc = 10$ or $9 - \bigcirc = 8$.

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.

Year 1 - Summer 1

Make it fun!

- ▶ Use practical resources would be left if you took a certain amount away- show 9 items and then ask your child to say how many
- ▶ Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat and then convert to numbers i.e. say '2' and they reply '8' (number bonds to 10). This can be done for any numbers.
- ▶ What's hidden? There are 8 beans on this plate, I hide some under a beaker - how many have I hidden?
- ▶ <http://www.ictgames.com/funkymum.html>
- ▶ http://www.ictgames.com/save_the_whale_v4.html Any bonds to 10

Key Instant Recall Facts

- ▶ Play a 'memory game' to find matching number bonds.
- ▶ Dominoes: Connect two dominoes to make the bond.
- ▶ Songs and rhymes e.g. 5 speckled frogs, 10 in a bed, 10 green bottles
- ▶ Timed Games: How well are you doing? How many questions can you answer in 2 minutes. Can you beat your own record?

Broaden and apply

We have eaten 3 ice lollies and there are 5 left in the box. How many were in the box to start with? How do you know?

I have 7p in my purse. How much more do I need to make 10p? How do you know?

Which is longer 3cm + 6cm or 9cm - 1 cm? How do you know?

How many ways can you make 10 using 4 numbers? (example; 1 + 3 + 2 + 4)

6 - = How many ways can you make this true?

+ = - What numbers could you put in here to make the sentences true?

<http://nrich.maths.org/1257> Flip Flop Match

<http://www.topmarks.co.uk/maths-games/hit-the-button> Make 10 or Addition within 10

<http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html> Choose game 6

Year 1 - Summer 2

I can count forward and backwards in steps of 2 from any given number.



Key Instant Recall Facts

Children should be able to count in 2's ,
forward or backward, from any number
eg:

2, 4, 6, 8,,,
32, 34, 36,,, 68,
66, 64,,,
23, 25, 27,,, 55, 57, 59,,,
88, 86, 84,,,
49, 47, 45,,,

Key Vocabulary

What is 2 more than ?
Count backwards in 2's
starting from?

Count forward in 2's from
.....?

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.

Make it Fun!

- Use the number square on the reverse to help - see what patterns you can spot
- Try chanting the numbers and marching
- Count and beat along on a drum
- Clap while you count
- Count practical objects like eyes on teddies
- Draw pictures to count with - hands / feet
- Use a puppet or teddy to count in 2's, making a mistake. Can your child spot the mistake and explain what is wrong - then count along correctly with you?