



# Year 2 Maths

## KEY INSTANT RECALL FACTS (KIRFs)

To develop your child's fluency and mental maths skills, we have introduced 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 schools. 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.

Each half term, children will focus on 2 KIRFs to practise and learn at home alongside the work that we will be doing weekly in school. They will include ideas to assist your child in grasping these key facts. They are not designed to be a time-consuming task and can be practised anywhere – in the car, walking to school etc. Regular practise – little and often – helps children to retain these facts.

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

Thank you for your support.

# Key Instant Recall Facts

## Year 2 Autumn 1

This half term your child is working towards achieving knowledge of the KIRFS, indicated below.

The ultimate aim is for your child to be able to recall these facts instantly.

### This term's KIRF

1.....

I can automatically recall addition and subtraction number bonds for numbers to, at least, 20.

Number bonds show us how numbers join together. They are very important for addition and subtraction.

The children should know the number bonds to all numbers up to 20 e.g.

Number bonds to 15:

$$0 + 15 = 15$$

$$1 + 14 = 15$$

$$2 + 13 = 15 \text{ etc.}$$

Number bonds to 16:

$$0 + 16 = 16$$

$$1 + 15 = 16$$

$$2 + 14 = 16 \text{ etc.}$$

The children should know all the number bonds that total 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 and 20

### Key Vocabulary

12 add 8 equals 20

18 plus 2 is the same as 20

20 take away 7 equals 13

20 subtract 3 makes 17

20 minus 9 equals 11

### Questions to ask at home:

What do we need to add to 13 to make 20?

If I have 10, how many more do I need to get to 20?

What is the difference between 20 and 12?

### Activity Ideas:

**Chants** - Practice chanting the number bonds.

**Paper Chains** - Use two different colours to make paper chains to show each number bond, for example  $14 + 6$  could be shown as 14 green links and 6 blue links.

**Say it, make it, write it** - For each number bond, say it out loud, make it using everyday objects and then write it as a sum.

**Pegs** - Put 20 pegs on to a coat hanger, split them in different ways and count how many pegs are on each side. E.g. 14 pegs + 6 pegs = 20 pegs ( $14+6=20$ )

Online games

<https://www.topmarks.co.uk/maths-games/hit-the-button> Number bonds on hit the button is a great way to practice.

## This term's KIRF 2.....

I can tell the time to quarter past the hour.

Children need to be able to tell the time using a clock with hands (analogue clock). They should already be able to read O clock and half past.

### Key Vocabulary

**Minute hand** – the longer hand.

**Hour hand** – the shorter hand.

**Half past** – 30 minutes past the hour.

**O'clock** – on the hour

**Quarter past** – 15 minutes past the hour.

**Quarter to** – 45 minutes past the hour

### Questions to ask at home

Where does the minute hand point when it is 20 past?

Which side of the clock will the minute hand be if it is a 'past' time? Or a 'to' time?

### Activity Ideas

**What time is it?** - Find as many opportunities as possible to ask your child what time it is throughout the day. This will also help them to understand what happens at different times.

**Hula hoop clock**- Use a hula hoop, chalk for the numbers and some sticks to make your own clock.

**Time monitoring** - Give your child responsibility for keeping track of the time, for example 'We need to take the cakes out of the oven at 5 past 2. Tell me when that is.'

### Online games

<https://www.topmarks.co.uk/time/teaching-clock> A great resource to help children explore time.