



Year 2

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 Summer 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.....

I know multiplication and division facts for the 2x 5x 10x table.

For example:

The five, two and 10 times table is a key skill for KS1 learners. They should already be able to count forward and backwards in 2's 5's, 10's now they need to apply that be able to multiplication facts.

They should be able to answer these questions in any order, including missing number questions, e.g.

$$40 \div 10 = 4$$

$$4 \times 10 = 40$$

Key Vocabulary

Repeat the below for 2s, 5s and 10s

Multiply- Adding equal groups a certain number of times,
e.g. $5 \times 4 = 5+5+5+5 = 20$.

Can also be referred to as groups of or lots of.

Divide- Sharing or grouping numbers/objects into equal groups,
e.g. $10 \div 5 = 2$.

Questions to ask at home:

Repeat again for 2s, 5s and 10s

What is 5 multiplied by 8?

What is 3 lots of 5?

What is 25 divided by 5?

How many groups of 5 can you make from 10 objects

Things to try

5 times table song- Play a 5 times table song in the car when travelling.

Can you beat the calculator? - Ask your child a 5 times table question, see if they can answer it before you type it into a calculator!

How many fingers and toes? - Draw around all of the hands and feet in your household, how many fingers and toes are there altogether?

Skip count – Go outside, use chalk to write the numbers 1-12 in a random order. Jump, skip or hop along the numbers, multiplying each number by 5 as you go.

Online games

White Rose video: Spr2.2.4 - 5 times-table on Vimeo

Hit the Button - Quick fire maths practise for 6-11 year olds (topmarks.co.uk)

Whack A Mole - Counting in steps of 1, 2, 3....12 (ictgames.com)

Duck Shoot - tablet friendly (ictgames.com)

TTRS TT rockstars

This term's KIRF 2.....

I know addition and subtraction facts to 100 using my number bonds These help children understand the relationship between numbers and develop their mental math skills by using number bonds

For example

Children need to be able to use their number bond knowledge to 10 and use for number bonds to 100

$$1+9=10 \quad 10+90=100$$

$$2+8=10 \quad 20+80=100$$

$$3+7=10 \quad 30+70=100$$

$$4+6=10 \quad 40+60=100$$

Then move on to
Number Bond: 50

$$20 + 30 = 50$$

$$25 + 25 = 50$$

Number Bond: 60

$$40 + 20 = 60$$

$$35 + 25 = 60$$

Number Bond: 70

$$50 + 20 = 70$$

$$45 + 25 = 70$$

Number Bond: 80

$$60 + 20 = 80$$

$$55 + 25 = 80$$

Number Bond: 90

$$70 + 20 = 90$$

$$65 + 25 = 90$$

Subtraction Facts

Number Bond: 50

$50 - 20 = 30$

$50 - 25 = 25$

Number Bond: 60

$60 - 40 = 20$

$60 - 35 = 25$

Number Bond: 70

$70 - 50 = 20$

$70 - 45 = 25$

Number Bond: 80

$80 - 60 = 20$

$80 - 55 = 25$

Number Bond: 90

$90 - 70 = 20$

$90 - 65 = 25$

Key Vocabulary

Number bonds

Part , part whole

Questions to ask at home

**Keep repeating and make links of using their
number bond knowledge**

Number bonds facts 1 + something =10

10+ something =100

Online games

Top Marks -[number bond games](#) - [Topmarks Search](#)

ICT - [Save The Whale: Learn bonds of 10, 9, 8, 7, 6 or 5](#)