



Year 6 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 6 Spring 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 use my knowledge of multiplication facts to derive scaled facts of numbers including decimals

For example

$$0.6 \times 4 =$$

If we know that $6 \times 4 = 24$

Then we can make it 10 times smaller so $0.6 \times 4 = 2.4$

Key Vocabulary

multiplication fact
scaled fact
10 times smaller

Play a game

Choose a multiplication fact you know eg $3 \times 5 = 15$.

Write down the related scaled multiplication facts

$$\text{Eg } 0.3 \times 5 = 1.5$$

$$3 \times 0.5 = 1.5$$

$$0.03 \times 5 = 0.15$$

Online games to practise multiplication facts

Times Table Rock Stars – challenge a friend

<https://www.topmarks.co.uk/maths-games/hit-the-button>

This term's KIRF 2.....

I can convert between standard units of metric measure.

To know how to convert between metric units of:

capacity – millilitres and litres

mass – grams, kilograms, tonnes

length – millimetres, centimetres, metres and kilometres

Key Vocabulary

Measure

Capacity – millilitres, litres

Length – millimetres, centimetres, metres, kilometres

Mass – grams, kilograms, tonnes

Milli, kilo, cent prefixes

Play a game

Measure the capacity, mass, length of an item and then convert into different measurements.

Online games to support

<https://mrusbaum.com/horrendous-soup-online-game>

<https://cemc2.math.uwaterloo.ca/mathfrog/english/kidz/metric6.shtml>

