



# 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 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 1.....

I know the formula for finding the area of shapes – oblong, square, parallelogram, triangle.

For example

Area rectangle – length x width

Area of parallelogram = length x height

Area of a triangle =  $\frac{1}{2}$  base x height

### Key Vocabulary

area, 2D shape, length, width, height, base

Play a game

Draw a rectangle, parallelogram or triangle and give length/base and height/width measurements.

Ask the children to work out the area.

Online games to support

[Finding the area of compound shapes \(scootle.edu.au\)](http://scootle.edu.au)

[Area Perimeter Explorer](#) | [Geometry for Kids](#) | [Toy Theater](#)

[Area Blocks](#) | [Math Playground](#)

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

I can find unit fractions of amounts

To know how to calculate unit fractions of amounts by using the relationship between fractions and decimals.

### Key Vocabulary

Unit fractions (fractions where the numerator is 1)  
Numerator  
denominator

Play a game

Ask children to find unit fractions of different amounts eg what is  $\frac{1}{4}$  of 40 etc. Can children represent using a bar model.

Online games to support

[Fractions of Amounts Bingo - 7-11 year olds - Topmarks](#)

[Crystal Crash - Fractions of Numbers - Mathsframe](#)