



*"Let us love, not in word, but in truth and action." (1 John 3:18)*



## YEAR 6 MATHEMATICS

### Key Instant Recall Facts

#### KIRFs

To develop your child's fluency and mental maths skills, we are introducing **KIRFs** (Key Instant Recall Facts) throughout the 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 our school. 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 and accurately.

Instant recall of facts helps enormously with mental agility in maths lessons. When children move onto written calculations, knowing these facts is very beneficial. For your child to become more efficient in recalling them easily, they need to be practised frequently and for short periods of time.

Each half term, children will focus on a Key Instant Recall Fact (KIRF) to practise and learn at home for the half term. They will be available on our school website on our class page. A copy will also be placed in their homework folder to keep at home.

The KIRFs include key vocabulary and examples of the key skills, as well as practical ideas to assist your child in grasping the key facts. Each KIRF also contains helpful suggestions of ways in which you could make this learning interesting and relevant. 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 and keep their skills sharp.

Throughout the half term, the KIRFs will also be practised regularly and in short bursts at school. Over their time at primary school, we believe that - if the KIRFs are developed fully - children will be more confident when working with number, understand its relevance, and be able to access the curriculum much more easily.



# Key Instant Recall Facts

## Year 6 - Spring 1

### I can identify common factors of a pair of numbers

By the end of the half term, children should know the following facts. The aim is for them to recall these facts instantly.

The factors of a number are all numbers which divide it with no remainders. E.g. the factors of 24 are 1, 2, 3, 4, 6, 8, 12 & 24.

The factors of 56 are 1, 2, 4, 7, 8, 14, 28 and 56.

The common factors of two numbers are the factors they share. E.g. the common factors of 24 and 56 are 1, 2, 4 & 8.

The highest common factor of 24 and 56 is 8.

Children should be able to explain how they know that a number is a common factor. E.g. 8 is a common factor of 24 and 56 because  $24 = 8 \times 3$  and  $56 = 8 \times 7$ .

#### Key vocabulary:

factor

common factor

multiple

highest common factor

#### Top Tips

The secret to success is practising little and often. Using time wisely. Can you practise these KIRFs while walking to school or during a car journey? You do not need to practise them all at once; perhaps you could look at a couple of pairs of numbers each day. If you would like more ideas, please contact Mrs Macdonald.

#### Games

<https://www.timestables.co.uk/>

<http://www.timestables.me.uk/>

<https://www.topmarks.co.uk/maths-games/multiples-and-factors>

<https://www.sheppardsoftware.com/math/fractions/greatest-common-factor-game/>

<https://www.transum.org/Software/Game/Connect4/>

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Factor-Game/>

Choose 2 numbers. Take it in turns to name the factors. Who can find the most?

NOTE - we do not expect children to know all the factors to a number instantly but would expect them to be able to work them out within a minute or so for numbers under 100.