GREAT ECCLESTON COPP
Church of England Primary School

Copp Lane, Great Eccleston, Lancs. PR3 0ZN
Tel: 01995 670969
head@coppschool.lancs.sch.uk
www.coppschool.lancs.sch.uk
Headteacher: Andrea Loughran

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

SIAMS INSPECTION 2020 EXCELLENT

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 - Autumn 2

I can confidently multiply and divide by 10, 100 and 1000 and give answers up to 3 decimals places

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

Fact Families

7 x 10 = 70
10 x 7 = 70
70 ÷ 7 = 10
70 ÷ 10 = 7

30 x 10 = 300
10 x 30 = 300
300 ÷ 30 = 10
300 ÷ 10 = 30

0.8 x 10 = 8
10 x 0.8 = 8
8 ÷ 0.8 = 10
8 ÷ 10 = 0.8

6 x 1000 = 6000
1000 x 6 = 6000
6000 ÷ 6 = 1000
6000 ÷ 1000 = 6

50 x 1000 = 50 000
1000 x 50 = 50 000
50 000 ÷ 1000 = 50
50 000 ÷ 50 = 1000

Key vocabulary:

What is 5 **multiplied by** 10?

What is 10 **times** 0.8?

What is 700 **divided by** 70?

Thousands, hundreds, tens, ones, tenths, hundredths.

These are just examples of the facts for this term.
They should be able to answer these questions in any order, including missing number questions e.g. 10 x ? = 5 or ? ÷ 10 = 60

Top Tips: The secret to success is practising **little** and **often**. Use time wisely. Can you practise these KIRFs while walking to school or in the car?

It is tempting to tell children that to multiply by 10, 100 or 1000 it is just a case of adding zeroes to the end of a number. This way of thinking, however, can cause problems when they are trying to multiply and divide decimal numbers as the rule does not work for these numbers.

The best way to understand the process for multiplying by 10, 100 or 1000 is to show each digit moving in the place value table (place value shift). This rule also works for decimals.

Games and videos

https://www.bbc.co.uk/bitesize/topics/zc3d7ty/articles/zmk72v4
https://www.youtube.com/watch?v=RssSPp_3YTc
https://wordwall.net/en-gb/community/multiplication-by-10-100-1000
https://bsaky4.weebly.com/homework/multiply-by-10-100-and-1000
https://www.iknowit.com/lessons/e-multiplying-and-dividing-whole-numbers-by-10-100-1000.html