GREAT ECCLESTON COPP
Church of England Primary School

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

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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 - Spring 2

I can identify prime numbers up to 50

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

A **prime number** is a number with **no factors** other than one and itself.

The following numbers are **prime numbers**:
2,3,5,7,11,13,17,19,23,29,31,37,41,43 and 47.

A **composite number** is divisible by a number other than one and itself.

The following numbers are **composite numbers**: (all even numbers except 2 are **composite numbers**)
4,6,8,9,10,12,14,15,16,18,20,21,22,24,25,26,27,28,30,32,34,35,36,38,39,40,42,44,45,46,48,49 and 50.

Children should be able to explain how they know that a number is **composite**. E.G. 39 is a **composite number** because it is a **multiple** of 3 and 13.

Key vocabulary

Prime number

Composite number

Factor

Multiple

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 have a fact of the day. If you would like more ideas, please contact Mrs Macdonald.

You do NOT have to learn all the **prime numbers**; you just have to know how to work out if a number is **prime** or **composite**.

The number 1 is not a prime number or a composite number.

It is very important that your child uses mathematical vocabulary accurately. Choose a number between 2 and 50. How many correct statements can your child make about this number using the key vocabulary above.

Make a set of cards for the numbers 2 - 50. How quickly can your child sort these into prime and composite numbers? How many even prime numbers can they find? How many odd composite numbers can they find?

Games

https://www.transum.org/Maths/Game/Primes/Pick.asp?Level=1
https://mathszone.co.uk/number-facts-x%C3%B7/find-the-primes/
https://www.abcya.com/games/number_ninja_factors
https://www.mathematics-monster.com/tests/bubble_pop_prime_numbers_test.html
https://www.mathnook.com/math/skill/primecompositegames.php