PYE BANK PRIMARY SCHOOL MATHEMATICS

KIRFS – Key Instant Recall Facts Overview

KIRFs (Key Instant Recall Facts) are designed to support the development of the mental fluency skills that underpin much of the mathematics curriculum. They are particularly useful when calculating, it adding, subtracting, multiplying or dividing.

• Each year group is allocated up to six facts to focus on throughout the year, in line with the National Curriculum and age-related expectations. Time is dedicated at least once a week during Fluency Friday to ensure that the KIRF is practiced and learnt so that children grow in confidence to recall their facts instantly. It is also helpful if children can practise their KIRF target at home too. A parent prompt sheet is shared each half term with top tips and practical resources which can be used at home.

 • Instant recall of facts helps children to be confident mathematicians; when children move onto written calculations and abstract methods, knowing these key facts is crucial. For children to become more efficient in recalling them easily, they need to be practised frequently and in short bursts

Formal assessment is not completed for the KIRFS, however teachers will continuously use assessment for learning during their fluency teaching session and through their questioning in the classroom. As these are core objectives, the aim is for all children to be able to instantly recall these facts and the impact of success of this will be translated into their end of term NTS summative assessment outcomes.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	I can read and write numbers 1-10 in numerals and words.	I know number bonds for each number to 20.	I know number bonds to 100.	I know multiplication and division facts for the 6 times table.	I know one and two decimal place number bonds for numbers between 1 and 10.	Derive multiplication and division facts using decimal numbers (e.g. 8 x 0.7 = 5.6)
Autumn 2	I know number bonds for each number to 6.	I know the multiplication and division facts for the 2 times tables.	I know multiplication and division facts for the 3 times tables.	I know multiplication and division facts for the 9 and 11 times table.	**I know all the multiplication and division facts for all times tables up to 12 x 12**	I can identify common factors of a pair of numbers.
Spring 1	I know doubles and halves of numbers to 10.	I know doubles and halves of numbers to 20.	I can find 10 or 100 more or less than a given number.	I know multiplication facts for the 7 times table.	I can find factor pairs of a number.	I know common fraction, decimal and percentage equivalents.
Spring 2	I know number bonds to 10 and number bonds for each number.	I know multiplication and division facts for the 10 times table.	I know multiplication and division facts for the 4 times table.	**I know all the multiplication and division facts for all times tables up to 12 x 12**	I can identify prime numbers up to 50.	I know the first 5 cube numbers.

Summer 1	I can read and write numbers 1-20 in numerals and words	I can count, read and write numbers to 100 in numerals.	I can count in multiples of 50 and 100.	I can recognise decimal equivalents of fractions.	I can recall square numbers up to 12^2 and their square roots.	I know doubles and halves of 2-digit decimals.
Summer 2	I know number bonds to 20	I know multiplication and division facts for the 5 times table.	I know multiplication and division facts for the 8 times table.	I can multiply and divide single-digit numbers by 10 and 100.	I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	I know the formulae for finding the area of different shapes.

NOTE: The Y4 KIRF of knowing all times table facts is revisited in Autumn 2 for Year 5 to ensure all children are secure and fluent with times tables to enable them to access the multiplication and fraction Y5 teaching blocks confidently and efficiently, ensuring multiplication facts remain high profile.