



Year 4 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 a KIRF 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 Fact

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

I can count in steps of 6 forwards and backwards.

I know the multiplication and division facts for the 6 times table

Step 1

I can see the pattern.

I understand that the 6 times table is groups of 6.

6

6

6

$$6 + 6 + 6 = 18$$

Step 2

I know the facts instantly.

I am fluent and confident.

The 6 times table

Multiplication fact	Read it as...	Answer
1 x 6	One six	6
2 x 6	Two sixes	12
3 x 6	Three sixes	18
4 x 6	Four sixes	24
5 x 6	Five sixes	30
6 x 6	Six sixes	36
7 x 6	Seven sixes	42
8 x 6	Eight sixes	48
9 x 6	Nine sixes	54
10 x 6	Ten sixes	60
11 x 6	Eleven sixes	66
12 x 6	Twelve sixes	72

Ways to help at home

To help see the 6 times table as groups of 6 encourage your child to build groups of 6.

You could use groups of 6 petals, 6 sides of a hexagon, 6 studs on a lego brick and then say how many or how much you have altogether.

To help see the pattern.

Explore using anchor facts of 5 times table + 1 times table

Example: 8×6

$$8 \times 5 = 40 \quad 8 \times 1 = 8 \quad 40 + 8 = 48$$

$$\boxed{40} + \boxed{8} = \boxed{48}$$

So, $8 \times 6 = 48$

Explore doubling the 3 times table

Example: 8×6

$$8 \times 3 = 24 \quad \xrightarrow{\times 2} \quad \text{Double } 24 = 48$$

$$\boxed{24} \xrightarrow{\times 2} \boxed{48}$$

So, $8 \times 6 = 48$

Use both strategies to build understanding, flexibility and confidence.

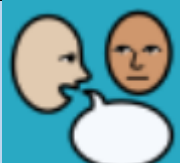
Online learning and interactive practice

<u>Home - Times Tables Rock Stars</u> • Play 3-4 times each week • 5-10 minutes each session • Helps on the 10 times table • Focus on 10 times table	<u>Multiplication Tables Check (MTC) Practice</u> Children can prepare for the nation Multiplication Tables Check at the end of year 4 using: • Thompson's MTC • Multiplication Tables Check - Mathsframe The 6 second rule When using MTC practice sites, set the timer for 6 seconds per question. This builds the quick recall expected in school. Encourage children not to press enter but to use the time to check.	<u>Times tables games - Learn them all here!</u> A fantastic website with lots of fun ways to explore multiplication. It helps to strengthen understanding before increasing speed.
<u>Hit the Button - Quick fire maths practise for 6-11 year olds</u> A popular game for quick-fire mental maths practice.		

Games to play at home

Six step challenge Count in 6s as you walk around the garden. Take a step and say 6, 12, 18, 24... How far can you get without making a mistake? Can you count backwards too?	Multiple race Hide answers to the 6 times tables around the garden or house. Include some that are not answers to the 6 times table. Race to see who can find the most. Encourage your child to say the question that goes with the answer.	Around the world Ask your child a quickfire question about the 6 times table. If they get it correct, they can take one step around the room or garden. How many steps does it take to get all the way round?
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Top Tips for Learning the 6 Times table

 Practise little and often 3-4 times a week. 5-10 minutes per session	 Say the facts aloud	6 Look for groups of 6 everywhere	 Use anchor facts (5 and 1 times table) to help you build confidence.	 Celebrate effort as well as correct answers.
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