



## Key Instant Recall Facts (KIRFs)



To develop your child's fluency and mental maths skills, we are introducing KIRFs 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 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 key 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 also be available on our school website under the Year Group Pages section and each child will receive a copy to keep at home. The KIRFs include practical ideas to assist your child in grasping the key facts and contain 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 practice - little and often - helps children to retain these facts and keep their skills sharp. Throughout the half term, the KIRFs will also be practised in school and your child's teacher will assess whether they have been retained.

Over their time at primary school, we believe that - if the KIRFs are developed fully - children will be more confident with number work, understand its relevance, and be able to access the curriculum much more easily. They will be able to apply what they have learnt to a wide range of problems that confront us regularly.



# Key Instant Recall Facts

## Year 2 - Autumn 1

I can count, read and write to 100, forwards and backwards and from any given number.

I can recall number bonds to 20.

I can count in 2s, 5s, 10s and 3s.

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

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

### Key Vocabulary

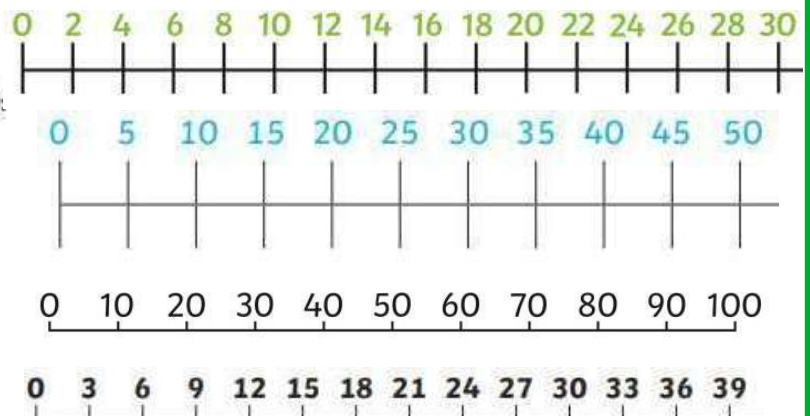
- Greater than - Place value
- Less than - Number bond
- Tens - 2s, 5s, 10s
- Ones - Total
- Teens - Altogether

number bonds to 10:

$$\begin{aligned}0 + 10 &= 10 \\1 + 9 &= 10 \\2 + 8 &= 10 \\3 + 7 &= 10 \\4 + 6 &= 10 \\5 + 5 &= 10 \\6 + 4 &= 10 \\7 + 3 &= 10 \\8 + 2 &= 10 \\9 + 1 &= 10 \\10 + 0 &= 10\end{aligned}$$

number bonds to 20:

$$\begin{aligned}0 + 20 &= 20 \\1 + 19 &= 20 \\2 + 18 &= 20 \\3 + 17 &= 20 \\4 + 16 &= 20 \\5 + 15 &= 20 \\6 + 14 &= 20 \\7 + 13 &= 20 \\8 + 12 &= 20 \\9 + 11 &= 20 \\10 + 10 &= 20\end{aligned}$$



### Top Tips...

- Use objects to consider the bonds in a practical way.
- Look at the patterns with both objects and numbers for number bonds e.g. as one number increases the other one decreases.
- <https://www.topmarks.co.uk/maths-games/hit-the-button> - practise number bonds to 10/20
- Practise counting in 2s, 5s and 10s practically - how many yellow pieces of lego are there? Shopping - we need 5 lots of carrots which come in 2s, how many will we have altogether?