St. Teresa's Catholic Primary School: Key Instant Recall Facts (KIRFS) 2024_2025

	Reception	Year 1		Year 2		Year 3		Year 4	Year 5	Year 6
Autumn	Say number		Know number		Count in steps of		Know all	Know multiplication	Consolidate multiplication	Derive multiplication and
1	names in order		bonds to 10.		2 from a given		addition and	and division facts for 7	and division facts for all	division facts using
	form them.				100.		for multiples of		x12.	decimal numbers e.g. 50 x
							10 to 100.			7 = 350; 8 x 0.7 = 5.6
Autumn	Say number	-	Know number		Count in steps of		Know	Know multiplication	Recognise square and	Recall equivalences
2	names in order		bonds to 20.		5 (from a given		multiplication	and division facts for	cube numbers within	between simple fractions,
	to 10 and begin				multiple of 5) up		and division facts	the 12 x times table.	100.	decimals and percentages.
	to form them.	our.			to 100.		for 4 x table.			
Spring 1	Know one	h ar	Know one more	our	Recall doubles of	es.	Know		Multiply and divide whole	Multiply and divide
	more/one less	st tl	or one less of	h ar	even numbers up	inut	multiplication		numbers by 10, 100 and	decimal numbers by 10,
	than number to	pas	numbers up to	io tl	to 20.	<u>ک</u>	and division facts	Know multiplication	1000.	100 and 1000.
	5.	half	20.	ast/t		rest s	for 6 x tables.	and division facts for all		
Spring 2	Know one	and	Know one more	er p	Recall halves of	неаг	Know	times tables up to 12 x	Recall decimal and	Identify common factors
	more/one less	our	or one less of	lart	even numbers up	the	multiplication	<i>*×</i> .	percentage equivalents of	of a pair of numbers.
	than number to	h ar	numbers up to	ib o	to 20.	to	and division facts		the fractions ½, ¼, ¾,	
	10.	to th	50.	ime t		time	for 9 x tables.		tenths and fifths.	
Summer	Know number	ime	Count in steps	he t	Recall 2s and 5s	the	Know	Find 10, 100 and	Convert between	Know all previous number
1	bonds to 5.	he t	of 2 to 24 from	ell ti	multiplication	Tell	multiplication	1000 more or less than	different units of metric	bonds including decimals
		ell t	zero.	F	and division		and division facts	a given number.	measure (e.g. km/m;	that total 1 or 10 (two
		1 1			facts.		for 8 x tables.		cm/m; cm and mm;	decimal places).
									g/kg; l/ml).	
Summer	Begin to explore		Count in steps		Recall 10s and		Know number	Know decimal number	Recall prime numbers up	Double or halve any
2	counting in 2, 5		of 10 to 120		3s multiplication		bonds to 100	bonds to 1; e.g. 0.3 +	to 19.	number with up to 2-
	and 10s.		from zero.		and division		(any given	0.7 = 1		decimal places.
					facts.		number).			

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KIRFS are becoming more common place in maths long-term planning. Academic research supports the use of KIRFS, and research suggests significant impact upon pupil progress.

The expectation is that all children will access overlearning of these facts/derived facts and will readily recall these. Progress against the current KIRF will be recorded – I will create a document for this. Evidence of this overlearning will be evidenced in basic skills books, but verbal practice of these is equally important – daily rehearsal to secure these facts is expected.

ACADEMIC READING TO JUSITIFY INTRODUCTION OF KIRFS.

Automaticity: Number Sense Maths 2020.

One of the strengths of setting out KIRFs is, in our minds, an acknowledgement that children benefit from having a bank of 'basics' that they have learnt to automaticity and can use in solving other mathematical problems. When children have quick access to a bank of facts which incur little cost to working memory, they will have more capacity to think about more complex problems that draw on these facts.

Derived Facts Approach: Number Sense Maths 2020.

It is important to remember though that, although having a bank of facts ready to use allows for quicker and effective access to more complex reasoning and/or problem-solving activities, teaching to automaticity through a derived fact approach – using what you know to work out what you don't know – must be part of teaching and learning practices.

Over time, with frequent application of these strategies, some facts (particularly those within 10) become known facts that are truly recalled. But for other facts this just doesn't seem to happen – particularly facts which bridge 10. 8 + 9 is a fact that, in training sessions over the years, I have asked probably a couple of thousand teachers to think about how they 'recall' it. In fact, only about 5% of primary teachers find they do recall it (in the way they would recall 5 + 5 = 10 by 'just knowing it'). The other 95% of teachers find they are very quickly using a strategy: most commonly near doubles, followed by 'make 10 and then', followed by adjusting (adding 10 and subtracting 1).

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Proposed Times Table Progression – this was discussed as a staff and it was agreed to be implemented from <u>September 2023.</u>

• This is based on an academic document 'order of teaching times tables'.

Year 2	Year 3	Year 4	Year 5/6
2s, 5s, 10s, 3s,	Secure 4s then	Secure 7s	Revision an
then introduce	6s, 9s, 8s	then	application
4 s	then introduce	11s, 12s.	
	7s	Then recall all	
		facts up to 12 x	
		12 in	
		preparation for	
		MTC.	

