## **Marazion School Skills Matrix**

Times tables to be practiced on a daily basis by classes to ensure all other skills are embedded.

## Mental Mathematics



## **Key Skills**

Recall a range of calculations using mixed operations.

Recall shape properties.

Add and subtract using a range of strategies.

Be confident, secure and happy in mental number knowledge.

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Count in steps of 2 and 10			Confidently count in 3,4, 6, 7		Mentally recall converting	Find a difference by counting
			3, 4 times tables and answer		tables up to 8X10. Be able to		up through the next multiple
		corresponding questions.				percentages and vice versa.	of 10,100 or 100.
l K	Add simple numbers	L		with pace.	questions with pace.		
	, 0		Find a difference by counting				Identify near doubles e.g.
		done in any order.	up using 2 digit numbers.	Understand that addition can	, ,	partitioning e.g. 324+58=	work out that 421+313=
	Subtract simple numbers	Find a small difference by				324+50+8	double 400 +21 minus 13.
	, ,		Know patterns of similar		adding tens first, then units and then the total.	look for poirs that make ton	Montally regall how many
		counting up. Number bonds to 10 and 20.		Find the difference by counting up using 3 digit		Look for pairs that make ten when adding or subtracting.	
	Recall names of snapes.	Number bonds to 10 and 20.			Find a small difference by	when adding or subtracting.	sides, edges, faces are in a shape.
	Know simple properties of 2D	Knowledge of doubles and	Know the inverse			Add simple decimals using	Shape.
	shapes.		calculations for addition and			,	Mentally recall
	silapes.		subtractions when asked and	,	liumbers.	partitioning.	multiplication facts up to
	Know some names of 3D		prompted.		Use similar patterns of	Add and subtract simple	12x12 quickly.
	shapes.	number by adding 10 and	r ·	Add and subtract 9 by adding	•	amounts of money using	ZZXZZ QUICKIY.
	-	, ,		10 and subtracting 1 using 3		place value.	
	Mathematical reasoning and		· ·	digit numbers.		P.	Add mentally three ir more
	9	Use addition and subtraction			Use patterns of similar		multiples of 10 e.g.
		as inverse operations.	Use knowledge of number	Use patterns of similar	calculations e.g. 4+8=12,	shapes and identify the	80+70+40+90=
	Say one more/less than a		facts and place value to	calculations e.g. 4+8=12,	20+80= 120, 400+800= 1200.	correct language.	
	given number.	Add simple numbers	multiply or divide mentally	20+80= 120, 400+800= 1200.			Respond to oral questions
			e.g.10/2= 5				such as 0.05+0.3= and
		beyond.		Use the relationship between			explain the method clearly.
	positional language.	Know days, months and				1000 then adjust. E.g.	
		seasons in order.	bonds to 20.	Complete some inverse	100.	274+99= 274+100-1	Add and subtract large
				calculations.			numbers mentally.
			Know left/right turns and		Use knowledge or doubles or		
			show this physically.		halves to multiply and divide	+1.6= double 1.5+0.1=3.1	Use related facts for
		the shape.		0 1	e.g. Double 34=		doubling or halving. E.g.
				value to add 3 digit numbers-		Know and use inverse	double 176=
		Practise counting around the		use number bonds to help.		operations for addition and	200+140+12=352
		•	accurately.		Know that multiplication and		l loo musebou footo ou d
		appropriate language.				multiplication and division.	Use number facts and
			Understand how to read and interpret scales accurately.		operations e.g. 7x5=35 and 35÷5= 7.		knowledge of place value to multiply or divide mentally
		scales quickly.	interpret scales accurately.	100.	DDTD- /.		muniply of divide mentally
		peales quickly.					

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			Shift digits to the left/right to	Begin to recite equivalent	Know all multiplication facts	by 10, 100, 100. E.g. 84÷100=
			multiply/divide by 10.	measures.	up to 12x12 and recite these	0.84
					when asked.	
			Use knowledge of number	Mentally order numbers with		Know division facts and how
		•	facts to multiply or divide	pace.	Doubling and halving e.g.	to work them out mentally,
			mentally.			explaining methods.
			•	Begin to add some simple	+double 8	
				decimals mentally.		Mentally recall converting
				1	Partitioning- e.g. 13x 21=	fractions to decimals to
						percentages and vice versa.
					(,	a contrades anno secono
					Use place value to multiply	Add decimals quickly.
					and divide by 10,100 and	raa accimais quietty.
					• •	Add percentages quickly.
					8200÷10=820	rida percentages quietty.
						Add amounts of money
					8200÷100=82	mentally, explaining
					8200+1000= 8.2	methods.
						inethous.
						Mantally next need have in
						Mentally put numbers in
						order. Including fractions
						and decimals.
						NA - mt - II.
						Mentally convert measures
						quickly. E.g. grams into kg
						etc.