



MULTIPLICATION Policy

WHY:

To enable children to develop fluency and automaticity with times tables. This frees up space in their short-term memories, allowing them to focus on problem solving/reasoning about number etc.

From a MTC point of view, practising using technology (tablet or laptop and keypad) allows children to become familiar with the button presses required, eliminating further cognitive overload associated with using a tablet.

HOW:

Regular planned MTC style practice from Foundation Stage upwards

WHAT and HOW OFTEN:

Year 1 to Year 6:

DAILY

- 15min lesson using **TIMESTABLES STICK**.
- Focus on HOW to work out answers (Landmarks and doubling strategies need to be embedded)
- Use timestables progression grid to ensure practising appropriate timestable for your year group.

WEEKLY

- Continue to use timestables mini tests for those tables that are not secure (own mini grid to track).
- Use www.timestables.co.uk to access MTC style test on chromebooks/ laptops or ipads
<https://www.timestables.co.uk/multiplication-tables-check/>
- Allow children to track those questions they are getting wrong as results are shown at the end. You can adapt the time but make sure you are aiming for 6 seconds or less.

Children Y4 or above who do not score 24 or 25 on the check should continue to do daily practice as part of APG until they become fluent.

HALF-TERMLY

- Use Maths frame (search Mathsframe multiplication check) half-termly to assess progress.

<https://mathsframe.co.uk/en/resources/resource/477/Multiplication-Tables-Check>



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WHOLE SCHOOL PROGRESSION

YEAR GROUP	TABLES	METHOD
Foundation		Counting in various group sizes, subitising, grouping, dividing etc.
1	2, 5, 10	Timestables stick, numicon and tens frames.
2	2, 5, 10 3, 4	Consolidate Timestables stick, numicon and tens frames.
3	Practise all of above 6, 8, 7	Consolidate Timestables stick, numicon and tens frames. Use in division
4	Consolidate all 7, 9, 11, 12	Consolidate Timestables stick, numicon and tens frames. Use in division, recall at speed Use If I know 2x, I can work out 4x grid
5	Consolidate all of the above	Consolidate Timestables stick, numicon and tens frames. Link to factors and associated multiplication facts Use If I know 2x, I can work out 4x grid
6	Consolidate all of the above	Consolidate Timestables stick, numicon and tens frames. Use grid above to calculate more complex multiplication tables and isolated facts

STRATEGIES:-

IF I KNOW..	I CAN WORK OUT...	MY CALCULATION
1 x 2	2 x 2 by doubling	2 x 2 = 4
2 x 2	3 x 2 by adding 1x and 2x together	2 + 4 =
3 x 2	If I know 3x I can work out 6x by doubling	Double 6 = 12
4 x 2	If I double 2 x 2 I can work out 4 x 2	Double 4 = 8
5 x 2	If I halve 10 x 2 I can work out 5 x 2	20 / 2 = 10
6 x 2	If I double 6 x 2, I can work out 12 x 2	Double 12 = 24
7 x 2	How can I work this out? Find a way you can remember... (5 x 2 added to 2 x 2)	
8 x 2	If I double 4 x 2, I can work out 8 x 2	Double 8 = 16
9 x 2	If I add 3 x and 6 x together, I can find 9x	6 + 12 = 18
10 x 2	I know this because I have been practising since I was in year 1!	10 x 2 = 20 (ZERO)
11 x 2	I know this because it has a pattern that is easy to remember	11 x 2 = 22
12 x 2	I know this because I know 10x and 2x and I can add these.	10 x 2 + 2 x 2 =