



Multiplication Tables Recall at Teversham C of E Primary School

At Teversham C of E Primary school, our children learn to have a secure and robust understanding and fluent recall of multiplication facts, taught through regular exposure of multiplicative structures and connections as well as continuous retrieval practice. By Year 4, all children will know multiplication and associated division facts up to 12x12.

The Rationale

At Teversham CofE Primary School, we believe that knowing times tables is an important life skill and should be taught in schools at a young age to ensure children are well equipped to be successful mathematicians. Our children become fluent through varied and frequent practice, developing conceptual understanding and the ability to recall and apply this knowledge rapidly and accurately. Automatic memorisation of times tables frees up working memory, allowing children to focus on other tasks such as problem solving and other examples of applying conditional knowledge.

“Quick retrieval of number facts is important for success in mathematics. It is likely that pupils who have problems retrieving addition, subtraction, multiplication, and division facts, including number bonds and multiples, will have difficulty understanding and using mathematical concepts they encounter later on in their studies.”

EEF Guidance Report, 2017

How we teach times tables

In our maths curriculum, multiplication is taught explicitly using a range of methods and representations. In addition, children receive regular retrieval opportunities, including via low stakes testing.

Low-stakes tests are timed to promote recall and to prevent children relying on inefficient methods. These are designed to constantly review previously learned times tables to build retrieval fluency and to prevent children forgetting these from their long-term memory.

Guidance and Expectations:

From Year 2 (Spring Term) onwards:

- Each term, a new times table will be introduced.
- Daily, children will rehearse their times table using a choral chant “1 times 5 is 5, 2 times 5 is 10...” The times table that is being focused should be displayed in classrooms for children to

be able to refer back to and should be easily identifiable on a working wall/somewhere in the classroom.

- Children will complete 3x 10 minute weekly sessions focusing on retrieval practice:
 - Session 1: Complete a Numberlink Board using the '1,10,5, derive' strategy.
 - Session 2: Quick completion of Numberlink Board, with choral repetition of sound pattern and whole class games
 - Session 3: Quick completion of Numberlink Board followed by retrieval practice of all facts using either TTRS worksheet or MTC practice
<https://mathsframe.co.uk/en/resources/resource/477/Multiplication-Tables-Check>
 Scores are recorded to track progress and identify any gaps.

Yearly overview for discrete teaching and practice

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Experience of counting in 2s, 5s and 10s					
Year 2	Addition	Subtraction	Add/sub	2x	10x	5x
Year 3	3x	3x	4x	4x	8x	8x
Year 4	6x	7x	7x	9x	Practice	Squares
Year 5	2-12x recall (identifying gaps)	2-12x recall (identifying gaps)	Multiplying and dividing by 10, 100, 1000	Multiplying and dividing by 10, 100, 1000 inc. decimals	Multiplying fractions.	Practice of skills taught.
Year 6	Identifying gaps for all multiplications	Decimals	Fractions	Practice in readiness for SATs.	Application for skills for tables beyond x12.	

When pupils commit multiplication table facts to memory, they do so using a verbal sound pattern to associate the 3 relevant numbers, for example, "six fours are twenty-four". It is important to provide opportunities for pupils to verbalise each multiplication fact as part of the process of developing fluency.

DfE Maths Curriculum Guidance, 2020

EEF Guidance Report: <https://educationendowmentfoundation.org.uk/education-evidence/guidance-reports/maths-ks-2-3>

Cambridge Maths: <https://www.cambridgemaths.org/espresso/view/learning-and-assessing-times-tables/>

DfE Curriculum Guidance: <https://www.gov.uk/government/publications/teaching-mathematics-in-primary-schools>

Maths National Curriculum:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/335158/PRIMARY_national_curriculum_-_Mathematics_220714.pdf

Ofsted Research Review: <https://www.gov.uk/government/publications/research-review-series-mathematics/research-review-series-mathematics>