



Moorlands Primary School

High Expectations, High Achievements, Challenge and Enjoyment for All

WELCOME

Multiplication Information
Evening

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Agenda:

- Importance of Times Tables.
- How they are used across the maths curriculum.
- How we teach multiplication at Moorlands.
- Demonstration of Times Table Rockstars.
- Government 2020 Multiplication Check.

Why are Times Tables Important?

- Used across the maths curriculum.
- Evidence shows that children who struggle with times tables at Primary School fall behind with maths at Secondary School.
- Even very complex multiplication and division questions need simple times table knowledge when you break down the calculation.
- Through knowing times tables, children can begin to spot patterns and apply this to more advanced work. E.g. $2 \times 3 = 6$ helps to know that $20 \times 30 = 600$ and $200 \times 300 = 60,000$.
- Being able to recognise these connections will in turn speed up their thinking processes and mental arithmetic, meaning cognitive space is freed up to learn new concepts and apply the mathematics to solve problems.

How are times tables used across the Maths curriculum?

- Multiplication and division
 - Place value-multiples and factors
 - Shape- area and perimeter
 - Fractions, decimals and percentages
 - Ratio and proportion
 - Algebra (Yr 6)
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How we teach multiplication at Moorlands.

- Ongoing practise during arithmetic lessons / quick starters to a lesson etc.
- Weekly Times Table Challenge working on Bronze, Silver Gold awards.
- Times Table Rockstars at least once a week.
- Children are taught to make connections. E.g. For learning 4 x table we can double the number then double again. 9 x table use the x 10 then subtract 1 multiple. For x 12 we can x 10 then add a double on etc. Unless children are taught these connections they tend to see tables as adding up in steps of 3, 4, 5 etc.

It is important for children to understand, as soon as possible, the commutative rule of multiplication (e.g. 4×7 is the same as 7×4). This will not only halve the number of facts to be memorised, but will help them to decide on the most efficient way to calculate.

Children also need to understand that every multiplication fact has two corresponding division facts, e.g. if they know that $5 \times 3 = 15$, they also know that $15 \div 3 = 5$ and that $15 \div 5 = 3$.

National Curriculum States that

Year 1 = counting in steps of 2, 5 and 10

Year 2 = x2, x5, x10 tables

Year 3 = x3, x4, x8 tables

Year 4 = x6, x7, x9, x11, x12

Year 5 = consolidation

Year 6 = consolidation

Times Table Rockstars.

- Mirrors the 2020 test- Soundcheck.
- Teachers may set the tables depending on what your child needs to learn, for example in year 3, the teacher could set x3,x4 and x8 to mirror the curriculum.
- Great way to practise times tables. Can be played on i-pads, tablets.
- Children can play against each other and see how well their friends are doing compared to them.
- Speed check averaged when using Studio.
- Teacher can use to highlight gaps or areas in which a child is slower to answer.
- Introducing Rockstar of the month per class, winners to display a trophy to have at their desk.

Government 2020 Multiplication Table Check.

- The MTC is focused on the fluent recall of multiplication facts.
- This will be delivered as an online, on screen digital assessment.
- The current domain for the MTC is based on the national curriculum which states 'by the end of year 4, pupils should have memorised their multiplication tables up to and including the 12 times table.'
- To take place in June 2020- (We will take part in a trial with the current Year 4 children in June 2019).
- 25 questions, 6 seconds per question to test fluent recall.
- There is emphasis on the 6, 7, 8, 9 and 12 multiplication tables because these have been determined to be the most difficult multiplication tables.

Thank you for your time

We welcome any questions.

I'm getting quicker at my times tables.

I like it that you can buy things for your avatar!

I love playing against my friends.

*I knocked 23 seconds of my
fastest time!*

I like to keep checking the leaderboard.