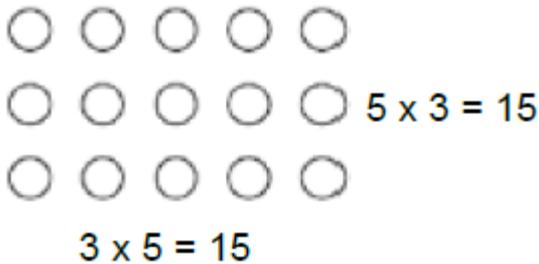


Times tables

Here are some tips for how you can support your child in their learning of the times tables at home:

- ❖ Use real-world objects to help your child understand the meaning and value of numbers, multiplication and division – for example grouping objects into equal groups and counting how many there are; counting how many legs will three teddies have.
- ❖ Begin by counting in multiples by using repeated addition, for example 4×5 can be thought of as 4 lots of 5.
So $5 + 5 + 5 + 5 = 20$

- ❖ Represent multiplication as arrays:



- ❖ Encourage your child to recite the multiplication and division facts aloud
- ❖ Discuss with your child how multiplication is commutative, so that changing the order that the calculation is done in does not change the outcome of the calculation
for example: $2 \times 3 = 6$ and $3 \times 2 = 6$.
We can switch the numbers we multiply around, and we still get the answer.
- ❖ Discuss how division is **not** commutative – we cannot switch the numbers in a division question like $6 \div 2$ and still get the same number.
- ❖ Encourage your child to notice patterns when multiplying and dividing. Children can colour in the multiples on a 100 square grid and notice any patterns or look for any patterns in a 12X12 multiplication grid. There are lots of patterns to spot and knowing these patterns makes recalling the times tables facts easier.
- ❖ Help your child to learn the division facts as well as the multiplication facts and encourage them to make links between multiplication and division
- ❖ When they can confidently recall the facts in order, encourage them to recall the facts in a random order.
- ❖ Look for real-life examples of multiplication and division around us
- ❖ Have the times tables facts around for the children to look at
- ❖ Discuss the vocabulary of multiplication and division, for example: lots of, groups of, multiply, repeated addition, product, multiplied by, array, divided by, share, divide, group, divide into.
- ❖ Regular practise of the times table facts is key for ensuring the long-term memory of these facts. Times Tables Rock Stars is a great way to do this alongside verbally practising them.

Online resources – times tables games:

<https://www.topmarks.co.uk/maths-games/7-11-years/times-tables>

<https://www.topmarks.co.uk/maths-games/5-7-years/times-tables>

<https://trockstars.com/>

Times Tables Rock Stars

When it comes to times tables, speed AND accuracy are important – the more facts your child remembers, the easier it is for them to do harder calculations. Times Table Rock Stars is a fun and challenging programme designed to help students master the times tables!

To be a Times Table Rock Star you need to answer any multiplication fact up to 12×12 in less than 3 seconds!

Within Times Tables Rock Stars, there are various game modes:

Garage - the questions will only come from the times tables the teacher has set for the week. It will include multiplication *and* division questions. As pupils start to answer questions, TT Rock Stars works out which facts they take longer on and will give them more of these questions to answer. The Garage is best for getting quicker at a few facts.

Studio - the questions in the Studio can be anything from 1×1 up to 12×12 .

TT Rock Stars calculates the mean response time from their last 10 games in the Studio and translates that time into a Rock Status. If children don't play in the Studio you don't get a Rock Status.

≤ 1 sec/qu = **Rock Hero**

≤ 2 secs/qu = **Rock Legend**

≤ 3 secs/qu = **Rock Star**

≤ 4 secs = **Headliner**

≤ 5 secs/qu = **Support Act**

≤ 6 secs/qu = **Breakthrough Artist**

≤ 7 secs/qu = **Unsigned Act**

≤ 8 secs/qu = **Gigger**

≤ 9 secs/qu = **Busker**

≤ 10 secs/qu = **Garage Rocker**

> 10 secs/qu = **Wannabe**

Soundcheck – When children play Soundcheck, they get 20 questions each with a 5-second time limit. The questions are multiplication only and evenly weighted in terms of difficulty each time they play.

Rock Arena (multiplayer)- The Arena allows players to compete against all other members of their Band (their Bandmates would need to join the same game in order to compete together).

Rock Festival (multiplayer) - The Rock Festival games are open to players from around the world. Like the Arena, there is no limit to the number of players who can join a game; however, unlike the Arena, questions are selected at random from 1×1 to 12×12 .

Year 4 Multiplication Tables Check

In Year 4 children take a statutory multiplication tables check (MTC). The purpose of the check is to determine whether pupils can fluently recall their times tables up to 12.

The national curriculum states that, 'By the end of year 4, pupils should have memorised their multiplication tables up to and including the 12-multiplication table and show precision and fluency in their work.'

The MTC is an on-screen check consisting of 25 times tables questions. The child will answer 3 practice questions before moving on to the official check, and will then have 6 seconds to answer each question. On average, the check should take no longer than 5 minutes to complete.