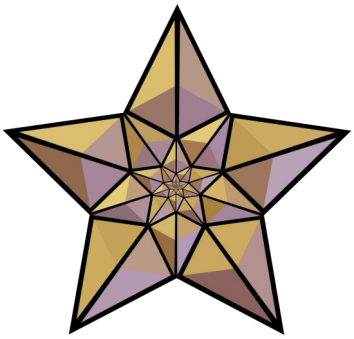
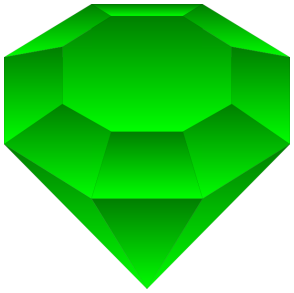


Maths Champions!

Mastering the multiplication tables and related division facts



The National Curriculum states that, by the end of Year 4, pupils should be able to 'recall multiplication and division facts for multiplication tables up to 12 × 12 .'

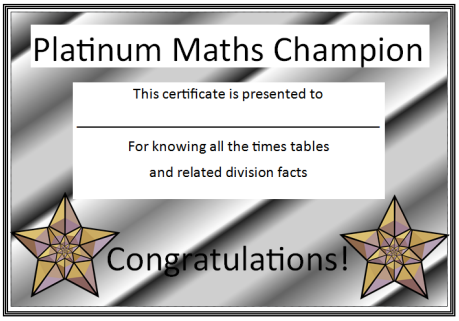
We know that this is an area of learning that many children find challenging so we have introduced a system to support and encourage them in the Lower Juniors.

Every week, the children will be tested on the times table level that is appropriate for them. This will test both the multiplication and related division facts and it will be under timed conditions as it is essential that they can recall with speed and accuracy. If they achieve all questions correctly two weeks in a row, they then move on to the next level.

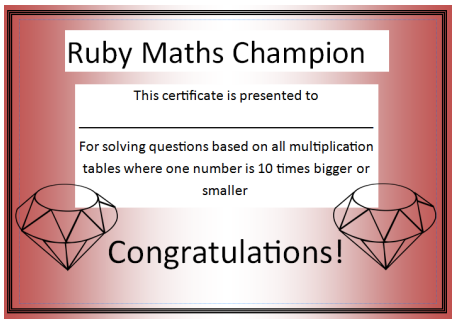
To achieve their Bronze award, children need to be able to recall the facts for the 0, 1, 2, 5 and 10 times tables.

The Silver award involves making sure they know the 3, 4 and 8 times tables.

For the Gold award, children need to be able to recall the 6, 9 and 11 times tables.

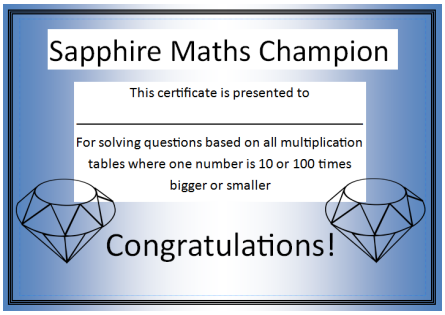


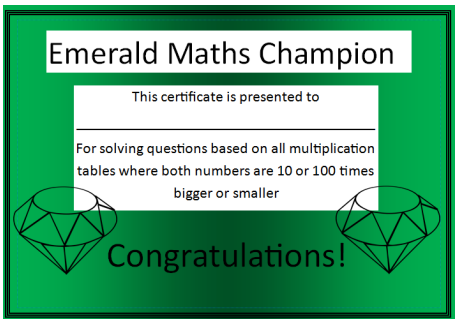
To achieve the Platinum award, they need to know all facts up to 12 x 12.



The Ruby award involves the children using their knowledge of all times tables as well as their ability to multiply and divide by 10 as one number will be made 10 times bigger or smaller eg 1.2 x 6, 300 ÷ 5

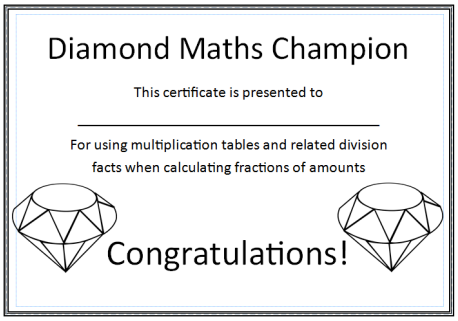
For the Sapphire award, children need to do the same as required for their ruby award however one number will be made 10 or 100 times bigger or smaller eg 4000 ¸ 8, 300 x 12.





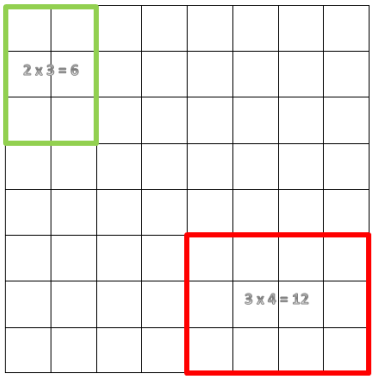
To receive the Emerald award, the children will need to use their tables knowledge and their ability to multiply and divide by 10 and 100 as both numbers will be made 10 or 100 times bigger or smaller eg 400 ÷ 80, 200 x 0.6

Finally, pupils can receive a Diamond award by using their multiplication tables and related division facts to calculate fractions of amounts.



They will have the opportunity at school during the week to learn the tables that they are focusing on and will also need to practise at home as this will give them the best chance of moving on to the next award. Times Tables Rockstars and Hit the Button are great online resources.

On the next pages are some ideas of how they can learn their tables. Please do ask if you have any questions or would like some advice.

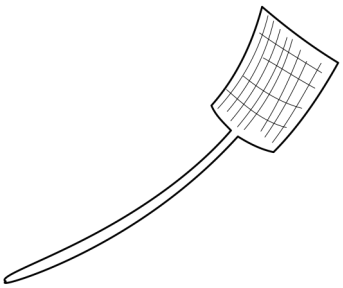


Racing rectangles

You will need two dice and squared paper. Take it in turns to roll two dice and multiply the numbers. Using your colour, draw a rectangle to match your multiplication (see picture). Keep going until you cannot fill any more space. The winner is the one who has covered the most squares.

Build arrays

An array is a set of objects organised into rows and columns and forming a rectangle. Use any object you like (eg cookies, counters, cubes) to build an array. Discuss and record the four facts that match it. For example, 4 x 2 = 8, 2 x 4 = 8, 8 ÷ 2 = 4, 8 ÷ 4 = 2.



Whack it!

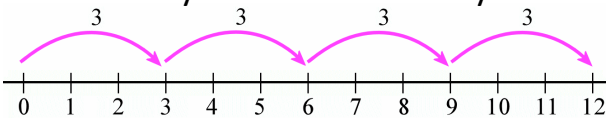
Using chalk, write out the facts for a multiplication table nice and big and spread out on your patio or a pavement. When someone calls out a multiplication table, you have to whack it with a fly swatter (or something similar!)

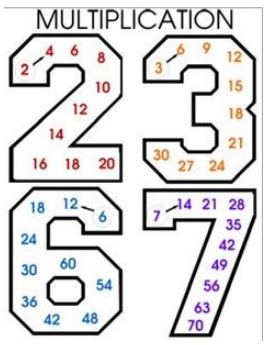
Singing/chanting

Chanting the times tables and singing tables songs is one way to learn the facts however the children do need to know them out of order and be able to recall at speed so bear this in mind when looking online or purchasing.

Counting on fingers/along a number line

This is still useful although, as above, be mindful that they still need to recall out of order rather than work through all facts until they reach the one they need.





There are many other ways to learn including pairs/snap games, bingo and creating posters. We love to hear new ideas so please share them with us!