



## Learning times tables with your child

Knowing key facts such as times tables and division facts are fundamental for children to progress in mathematics. At Great Easton Primary School we encourage children to work mentally where possible; therefore counting skills and table knowledge is very important. If a pupil has secure times table knowledge facts at their fingertips, they are able to build on these facts quickly. If I know  $6 \times 7 = 42$ , I can work out that  $60 \times 70 = 4200$ .

Below is a suggested grid for the acquisition of times table knowledge.

Times table	Year group				
	1	2	3	4	5/6
x2	BRONZE SILVER	GOLD			PLATINUM
x3		BRONZE	SILVER GOLD		
x4		BRONZE	SILVER GOLD		
x5	BRONZE SILVER	GOLD			
x6			BRONZE SILVER	GOLD	
x7			BRONZE	SILVER GOLD	
x8			BRONZE SILVER	GOLD	
x9			BRONZE	SILVER GOLD	
x10	BRONZE SILVER	GOLD			
x11			BRONZE	SILVER GOLD	
x12			BRONZE	SILVER GOLD	↓

### Explanation of bronze, silver, gold and platinum grades and certificates

**Bronze**- being able to count forwards and backwards confidently in a specific times table to 12 times that number.

eg. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24. 24, 22, 20, 18, 16, 14, 12, 10, 8, 6, 4, 2, 0

**Silver** - Recall times table facts in a random order (learning off by heart)

eg.  $5 \times 2 = 9 \times 2 = 3 \times 2 =$  etc

**Gold** - understanding and recalling both times table facts and related division facts in any order

$$10 \div 2 = 5 \quad 10 \div 2 = 5 \quad 2 \times 5 = 10 \quad 5 \times 2 = 10$$

**Platinum** - use and apply times table and division facts in a variety of ways

eg.  $2 \text{ squared} = 4$      $20 \text{ squared} = 400$      $200 \div 10 = 20$      $0.2 \times 10 = 2$  etc

The New National curriculum expectations have shifted and it is now expected that children will have acquired at least silver level for all times tables to  $12 \times 12$ , by the end of year four. As you can appreciate this is a challenge! This is why it is so important that teachers and parents work together to practise these skills.

There are many ways to practise these facts. The best method is to practise with your child for short bursts on at least a daily basis. Some parents and children like to count in the car on the journey to school; others count up and down the stairs or have lists on the back of the bathroom door! Whatever works best for your child/ren.

Let's halve the job!

When we multiply two numbers, it does not matter which is first or second, the answer is always the same. For example:  $3 \times 5 = 15$ , and  $5 \times 3 = 15$ . In fact, half of the times table grid is a mirror image of the other! **This is very important! It nearly cuts the whole job in half.**

	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Below is a list of free websites and apps for i-pads which may also be useful in maintaining their focus and making them successful mental mathematicians!

[www.woodlands-junior.kent.sch.uk/maths/timestable/interactive.htm](http://www.woodlands-junior.kent.sch.uk/maths/timestable/interactive.htm).

[www.learnyourtables.co.uk/](http://www.learnyourtables.co.uk/)

[www.maths-games.org/times-tables-games.html](http://www.maths-games.org/times-tables-games.html)

[www.transum.org/Tables/Times\\_Tables.asp](http://www.transum.org/Tables/Times_Tables.asp)

1. [Aardy's Multiplication Fun - free](#) Aardy's Multiplication Fun brings even more fun to learn and practice basic number multiplications.
2. [Ace Multiply Matrix HD Free - for iPad - free](#) Multiplication Logic Matrix - Easy to learn, hard to master.
3. [AppTutor LM - Introduction to Long Multiplication - free](#) Welcome to AppTutor "Appetizer" - Introduction to Long Multiplication. This app actually TEACHES math! Not just another quiz or worksheet app, this app shows how AppTutor teaches and interacts with students to truly grasp the subject at hand
4. [AppTutor MT - Multiplication Tables - free](#) Welcome to AppTutor "Appetizer" - Introduction to Multiplication Tables. This app actually TEACHES math! Not just another quiz or worksheet app, this app shows how AppTutor teaches and interacts with students to truly grasp the subject at hand. Includes lessons, tools, printable worksheets and more!
5. [Arithmetic Quilts - free](#) Arithmetic Quilts combines mathematics and art. Addition tables, multiplication tables, and tables based on more complex operations are displayed as colorful quilts by assigning a specific color to each positive whole number. This makes it much easier to discover and appreciate the beautiful patterns of mod arithmetic.
6. [Bingo - free](#) Bingo-- is a great game for the whole family. Select the operator and difficulty level in the "Settings" screen. Progress through the difficulty levels until you master the game.
7. [Egberta's Equations - free](#) Egberta the macaw has a nest full of tasty eggs that Cliff the climber wants to eat. Unfortunately, the eggs are on top of a tall cliff. Help Cliff reach the top and get the eggs by completing equations.
8. [Factor Samurai - free](#) Factor samurai is a great way to learn times tables. You play as the samurai whose sacred duty is to cut all the numbers down to their prime factors.
9. [FactorMan - free](#) This math game is played against the superhero FactorMan! You earn points by choosing numbers between 1 and 100. If you choose 5, you get 5 points; if you choose 18, you get 18 points. But FactorMan gets the sum of all of the factors of the number you have chosen (except for the number itself).
10. [Fast Facts Multiplication - free](#) This is simply the best math facts app on the market. It was created by a Third Grade Teacher with a post graduate degree in Curriculum and Instruction.