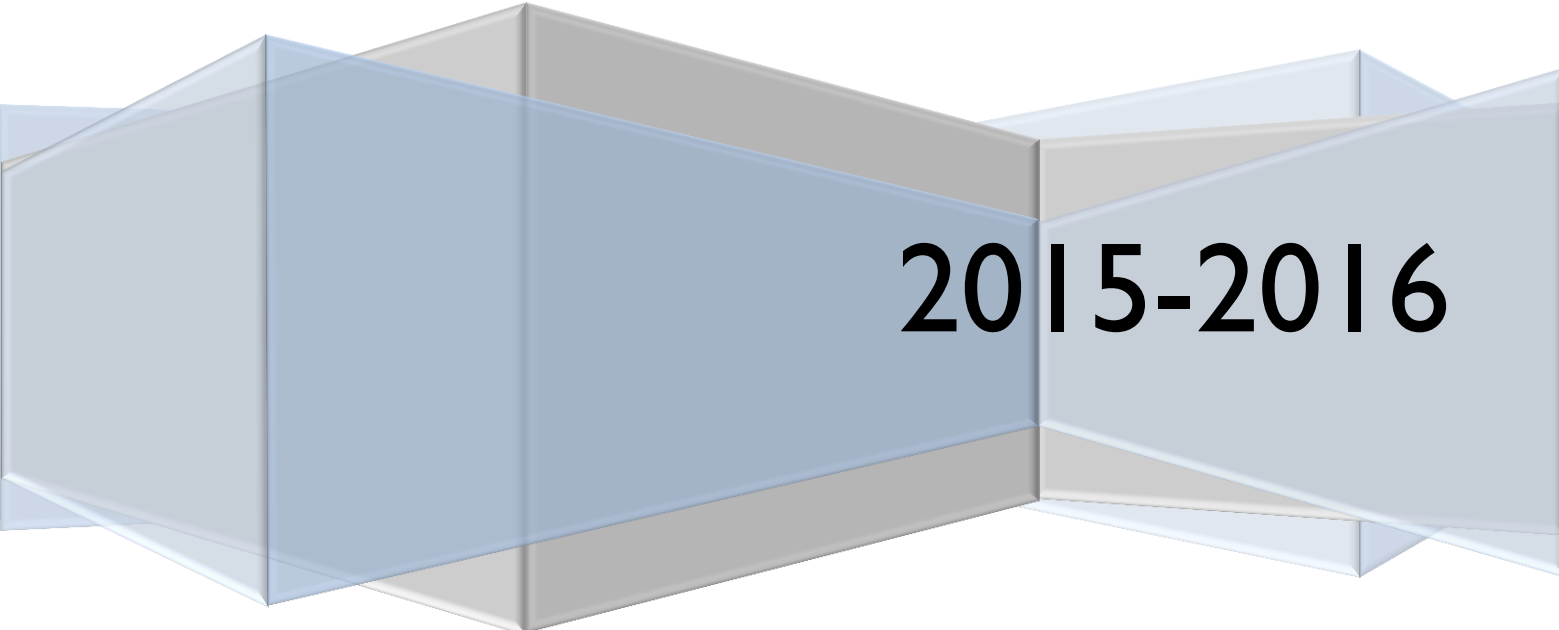


# **Times Tables at Merrylands**

**A guide for teachers and parents**



**2015-2016**

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## Who is this guide for?

This guide is designed for both school staff and parents to ensure that all children are taught and tested consistently and so that parents are aware of the expectations for their child.

## Curriculum Expectations

The National Curriculum states that children should:

*...become fluent in the fundamentals of mathematics ... through varied and frequent practice ... [and have] the ability to recall and apply knowledge rapidly and accurately.<sup>1</sup>*

This means that children need to develop quick recall of basic number facts, such as number bonds and times tables, so that they can use this knowledge to solve problems with larger numbers or in different contexts. There are also more specific objectives that children should achieve in each year group.

By the end of Year 2, children should:

*...recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100<sup>2</sup>*

and

*...recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables<sup>3</sup>*

By the end of Year 3, children should:

*...recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables<sup>4</sup>*

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<sup>1</sup> Mathematics Programmes of Study(p. 3)

<sup>2</sup> Ibid (p. 12)

<sup>3</sup> Ibid (p. 13)

<sup>4</sup> Ibid (p. 19)

By the end of Year 4, children should:

*...recall multiplication and division facts for multiplication tables up to  $12 \times 12$* <sup>5</sup>

These objectives mean that children should not just be able to recall their basic multiplication tables; they also need to know, recall and use division facts by the end of Year 4. This means that if a child knows that  $3 \times 7 = 21$ , they should also know the facts that  $21 \div 7 = 3$  and that  $21 \div 3 = 7$ .

They should also be able to apply their knowledge of multiplication to problems involving larger numbers; for example a child might say, "I know  $2 \times 3 = 6$ , so I know that  $20 \times 3 = 60$  and  $200 \times 3 = 600$ ." Children should be able to do this with every multiplication fact by the end of Year 4.

In 2017, Year 6 children will be tested on their knowledge of multiplication facts as part of their end of KS2 tests.

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<sup>5</sup> Mathematics Programmes of Study (p. 25)

## How Will Children Be Tested?

At the start of the year or when they enter the school, children will be given five minutes to complete the 'speed tables' sheet; this will let their teachers know which stage they will start their weekly tests on. Each child will then work through the five stages; when they reach stage five, they will keep trying to beat their time on a different grid each week. Stages 1, 2 and 3 are divided into mini-stages so the children are practicing one multiplication table each week.

Each week, your child will receive a times tables practice sheet with their homework. They can use the 'Look, Cover, Write and Check' method to practice their multiplication tables every day. When they are tested on Fridays, their score will be written on their homework so you can see how they are progressing. Children will not move onto a new test unless they have scored full marks in their previous test.

The different stages are as follows:

Stage 1: 2x tables, 10x tables, 5x tables, Mixed 2, 5 and 10s (year 2 objectives)

Stage 2: 3x tables, 4x tables, 8x tables, Mixed 3, 4, and 8s (year 3 objectives)

Stage 3: 6x tables, 11x tables, 9x tables, 12x tables, 7x tables, Mixed 6, 11, 9 and 12s (Year 4 objectives)

Stage 4: Blank multiplication grid

Stage 5: Complicated multiplication grid

## Practice Tests and Homework Examples

This is an example of a weekly homework sheet that your child will receive. They will receive one related to the multiplication test they will be taking on the Friday of that week.

Times Table Homework      Please use 'Look, Cover, Write, Check' to help you learn this week's times table.      Test on Friday

My score this week:	Monday Complete the number sentences	Tuesday Complete the number sentences	Wednesday Complete the number sentences	Thursday Write the number sentences
$1 \times 4 = 4$	$1 \times 4 =$	$1 \times 4 =$	$4 \times 4 =$	
$2 \times 4 = 8$	$2 \times 4 =$	$2 \times 4 =$	$2 \times 4 =$	
$3 \times 4 = 12$	$3 \times 4 =$	$3 \times 4 =$	$7 \times 4 =$	
$4 \times 4 = 16$	$4 \times 4 =$	$4 \times 4 =$	$8 \times 4 =$	
$5 \times 4 = 20$	$5 \times 4 =$	$5 \times 4 =$	$12 \times 4 =$	
$6 \times 4 = 24$	$6 \times 4 =$	$6 \times 4 =$	$10 \times 4 =$	
$7 \times 4 = 28$	$7 \times 4 =$	$7 \times 4 =$	$3 \times 4 =$	
$8 \times 4 = 32$	$8 \times 4 =$	$8 \times 4 =$	$1 \times 4 =$	
$9 \times 4 = 36$	$9 \times 4 =$	$9 \times 4 =$	$9 \times 4 =$	
$10 \times 4 = 40$	$10 \times 4 =$	$10 \times 4 =$	$6 \times 4 =$	
$11 \times 4 = 44$	$11 \times 4 =$	$11 \times 4 =$	$5 \times 4 =$	
$12 \times 4 = 48$	$12 \times 4 =$	$12 \times 4 =$	$11 \times 4 =$	

Your child's score will be written here on the Friday. If their score is 12, they will learn a different multiplication table the next week or progress to a mixed test.

Follow the instructions here and complete a different activity each day. This should only take a few minutes.

Children who are on stages 4 and 5 will receive blank versions of the grid to practice on. They can either choose to see how many parts of the grid they can complete in five minutes or try to complete the whole grid and see how long it takes them.

This is an example of the type of sheet that children will be given at the start of the year to see which stage they will start on. The children will have five minutes to complete it; the times tables on the sheet are in the same order as the stages of the individual tests.

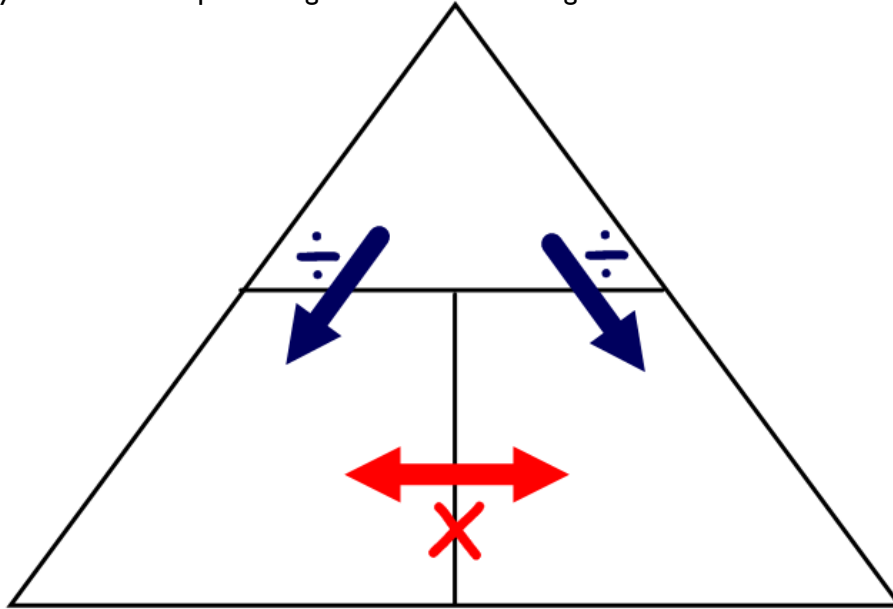
$1 \times 1 =$	$1 \times 2 =$	$2 \times 5 =$	$12 \times 10 =$	$1 \times 3 =$	$8 \times 4 =$
$10 \times 1 =$	$3 \times 2 =$	$10 \times 5 =$	$2 \times 10 =$	$5 \times 3 =$	$7 \times 4 =$
$6 \times 1 =$	$5 \times 2 =$	$5 \times 5 =$	$1 \times 10 =$	$3 \times 3 =$	$1 \times 4 =$
$9 \times 1 =$	$12 \times 2 =$	$9 \times 5 =$	$11 \times 10 =$	$4 \times 3 =$	$12 \times 4 =$
$4 \times 1 =$	$8 \times 2 =$	$4 \times 5 =$	$5 \times 10 =$	$12 \times 3 =$	$2 \times 4 =$
$5 \times 1 =$	$9 \times 2 =$	$12 \times 5 =$	$6 \times 10 =$	$7 \times 3 =$	$4 \times 4 =$
$3 \times 1 =$	$6 \times 2 =$	$6 \times 5 =$	$7 \times 10 =$	$9 \times 3 =$	$11 \times 4 =$
$2 \times 1 =$	$10 \times 2 =$	$3 \times 5 =$	$8 \times 10 =$	$10 \times 3 =$	$6 \times 4 =$
$8 \times 1 =$	$11 \times 2 =$	$1 \times 5 =$	$4 \times 10 =$	$8 \times 3 =$	$5 \times 4 =$
$11 \times 1 =$	$7 \times 2 =$	$7 \times 5 =$	$9 \times 10 =$	$2 \times 3 =$	$9 \times 4 =$
$7 \times 1 =$	$2 \times 2 =$	$8 \times 5 =$	$3 \times 10 =$	$11 \times 3 =$	$3 \times 4 =$
$12 \times 1 =$	$4 \times 2 =$	$11 \times 5 =$	$10 \times 10 =$	$6 \times 3 =$	$10 \times 4 =$
$7 \times 8 =$	$11 \times 6 =$	$12 \times 11 =$	$7 \times 9 =$	$1 \times 12 =$	$10 \times 7 =$
$2 \times 8 =$	$7 \times 6 =$	$1 \times 11 =$	$1 \times 9 =$	$8 \times 12 =$	$7 \times 7 =$
$1 \times 8 =$	$5 \times 6 =$	$9 \times 11 =$	$8 \times 9 =$	$11 \times 12 =$	$5 \times 7 =$
$6 \times 8 =$	$1 \times 6 =$	$8 \times 11 =$	$3 \times 9 =$	$7 \times 12 =$	$9 \times 7 =$
$11 \times 8 =$	$12 \times 6 =$	$11 \times 11 =$	$4 \times 9 =$	$2 \times 12 =$	$1 \times 7 =$
$3 \times 8 =$	$10 \times 6 =$	$2 \times 11 =$	$12 \times 9 =$	$3 \times 12 =$	$3 \times 7 =$
$12 \times 8 =$	$9 \times 6 =$	$3 \times 11 =$	$6 \times 9 =$	$12 \times 12 =$	$4 \times 7 =$
$5 \times 8 =$	$3 \times 6 =$	$10 \times 11 =$	$9 \times 9 =$	$10 \times 12 =$	$12 \times 7 =$
$8 \times 8 =$	$4 \times 6 =$	$5 \times 11 =$	$11 \times 9 =$	$6 \times 12 =$	$6 \times 7 =$
$4 \times 8 =$	$8 \times 6 =$	$7 \times 11 =$	$2 \times 9 =$	$9 \times 12 =$	$8 \times 7 =$
$10 \times 8 =$	$2 \times 6 =$	$4 \times 11 =$	$10 \times 9 =$	$5 \times 12 =$	$11 \times 7 =$
$9 \times 8 =$	$6 \times 6 =$	$6 \times 11 =$	$5 \times 9 =$	$4 \times 12 =$	$2 \times 7 =$

Each week your child will receive a test based on either one or a selection of multiplication tables. They will have to complete the number sentences. The children will have only a few minutes to complete their test because they will be tested on their rapid recall of the times tables during their end of KS2.

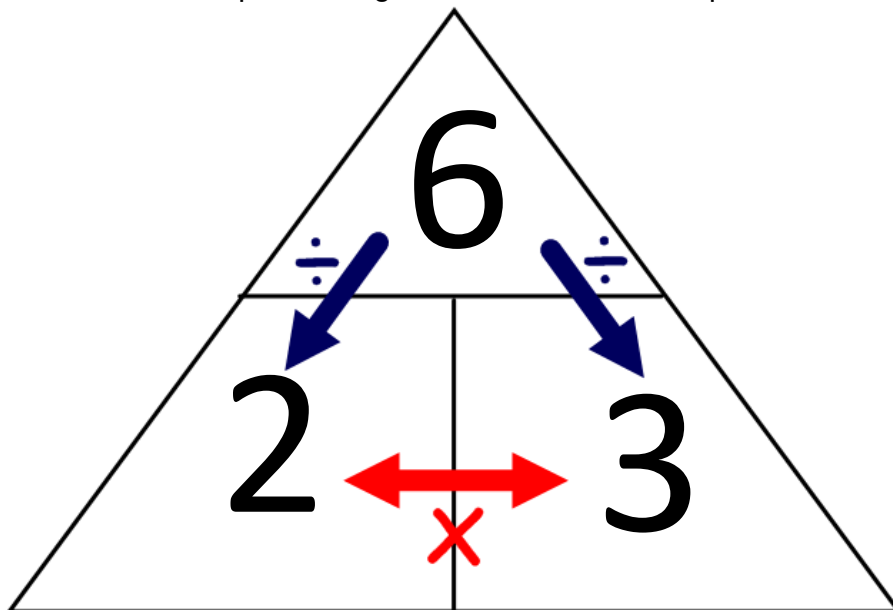
Number Sentence	Answer
$12 \times 10 =$	
$1 \times 2 =$	
$2 \times 5 =$	
$10 \times 10 =$	
$11 \times 2 =$	
$4 \times 5 =$	
$8 \times 5 =$	
$7 \times 10 =$	
$3 \times 2 =$	
$6 \times 5 =$	
$9 \times 2 =$	
$5 \times 5 =$	

Division Fact Recall

If your child is confident at recalling multiplication facts, you may wish to help them learn how to derive division facts. This triangle is a useful visual tool that can help children to derive and remember division facts. You can use it with your child by writing two numbers in the triangle and seeing if they can use a multiplication grid to find the missing number.



This example shows how a completed triangle would look for the multiplication fact  $2 \times 3 = 6$ .



The facts that this triangle now shows us are:

$$2 \times 3 = 6$$

$$3 \times 2 = 6$$

$$6 \div 2 = 3$$

$$6 \div 3 = 2$$



## Rewards

In your child's classroom, there will be a display which shows the children which stage they are on. Each time your child completes a stage, they will receive a certificate

## Useful Websites and Games

### Hit the Button

<http://www.topmarks.co.uk/maths-games/hit-the-button>

This game has questions about number bonds, times tables, division facts and more. There is an app available and it is tablet-friendly.

### Learn Your Tables

<http://www.learnyourtables.co.uk/en/index2.htm>

This tests your multiplication facts up to  $10 \times 10$ . It requires flash to work.

### Loop Cards

<http://www.topmarks.co.uk/Flash.aspx?f=loopcardsv6>

This helps you learn number bonds and times tables at all levels. It requires flash to work.

### 4 Times Table Shooting game

[http://www.mad4maths.com/4\\_x\\_multiplication\\_table\\_math\\_game/](http://www.mad4maths.com/4_x_multiplication_table_math_game/)

This game tests your knowledge of the 4 times table. It requires flash to work.

### Times Table Grid

[http://downloads.bbc.co.uk/skillswise/maths/mal3time/game/mal3tabl-game-tables-grid-find/timestables\\_2.swf](http://downloads.bbc.co.uk/skillswise/maths/mal3time/game/mal3tabl-game-tables-grid-find/timestables_2.swf)

This game uses a times table grid to help you learn where every number goes. It requires flash to work.

## Times Tables Worksheets

<http://www.math-drills.com/multiplication.php>

On this website, you can print out a variety of different sheets to help your child practice their times tables.

## Times Tables Games

<http://www.maths-games.org/times-tables-games.html>

This website has a variety of different maths games with enough themes to interest any child. They require flash to work.

## Mad 4 Maths

[http://www.mad4maths.com/multiplication\\_table\\_math\\_games/](http://www.mad4maths.com/multiplication_table_math_games/)

This website has many games to help you learn the 3, 4, 5, 6, 7 and 8 times tables.

## Youtube

You can also find a variety of different songs on Youtube that can help your child learn their times tables in a fun way.