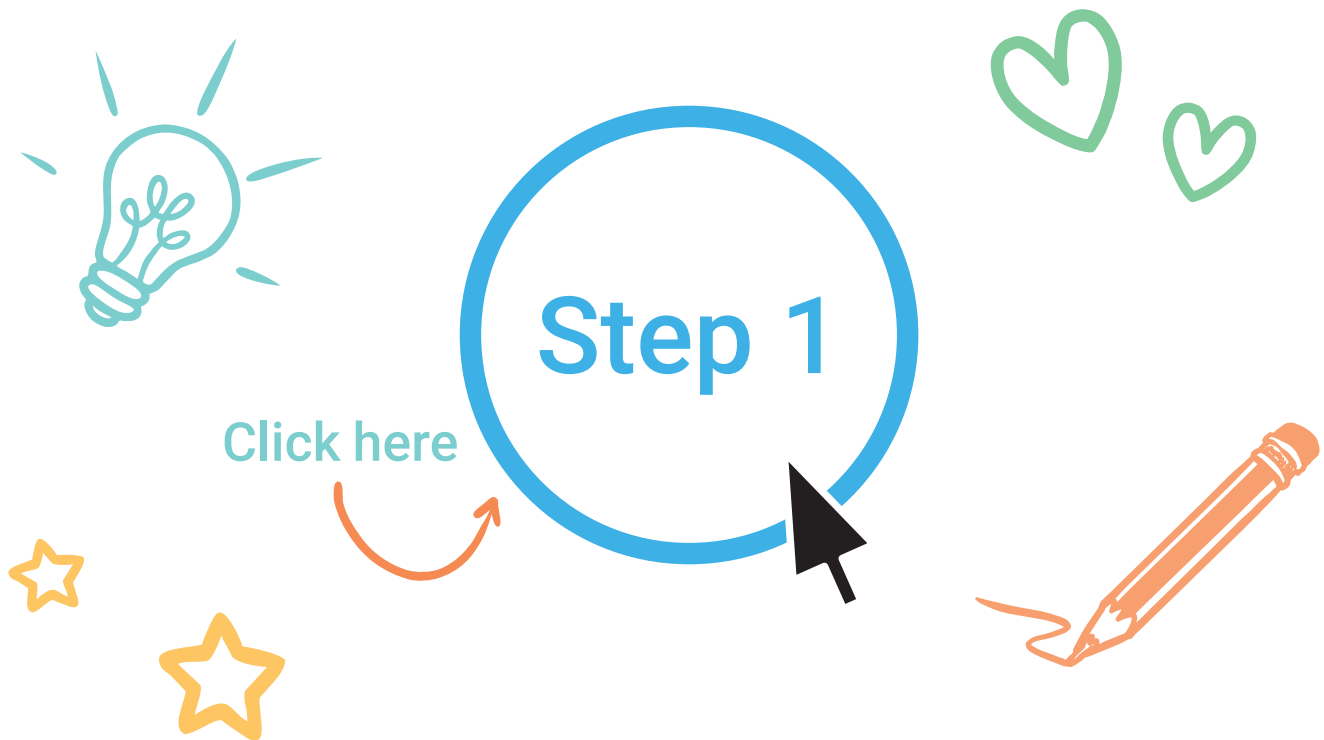
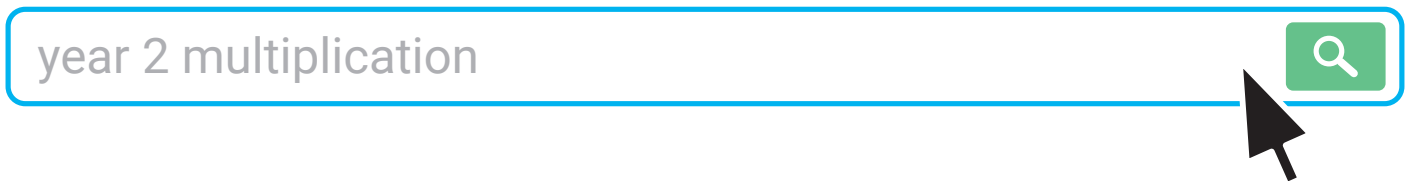


Year 2 Multiplication: A Step-by-Step Guide for Parents

This step-by-step explanation of year 2 multiplication and division can help you support your child's learning at home. Each subject is broken down into manageable chunks, providing you with a simple guide to follow, whether your child is already confident with simple times tables or whether they are still working with practical resources to multiply by using **repeated addition** or counting up.

Within **this area of the website**, you will find a selection of resources intended to help your child learn about each step of this guide. Each step also contains a keyword or phrase that you can use to search the Twinkl site for more resources and activities, designed to support your child in achieving that stage. Simply type the keyword or phrase into the search bar and press enter to explore together.



We hope you find the information on our website and resources useful. The contents of this resource are for general, informational purposes only. This guide is intended to offer parents general guidance on what subject areas tend to be covered in their child's year group and where they could support their children at home. However, please be aware that every child is different and information can quickly become out of date. There are some subject areas that we have intentionally not covered due to the nature of how they are taught or because a trained professional needs to teach these areas. We try to ensure that the information in our resources is correct but every school teaches the national curriculum in its own way. If you would like further guidance or are unsure in any way, we recommend that you speak to your child's teacher or another suitably qualified professional.

Multiplication

What Do Children Learn in Multiplication in Year 2?

In year 2, children begin to learn times tables facts, usually concentrating on the 2, 5 and 10 times tables. Children should practise these tables by counting up from zero (in 2s, in 5s or in 10s) and then back down again to zero. This gets children used to the patterns of the answers in those times tables.

It is important in year 2 that children realise that there are different words and phrases we can use to help us to understand multiplication. We can use 'multiply', 'times' and 'lots of'. When we say 3×5 , we mean three lots of five or five lots of three. Three lots of five sweets are fifteen sweets and five lots of three sweets are also fifteen sweets. Most children can grasp this by the age of seven, especially if you use real sweets and bags or bowls to put them in.

What Does Commutative Mean?

In year 2, children learn that multiplication of two numbers can be done in any order and the answer is still the same: mathematicians call this **commutative**. It simply means that $5 \times 10 = 10 \times 5$. It still applies even if you multiply more than two numbers, so $5 \times 2 \times 4 = 2 \times 4 \times 5$. Both sides of this **equation** are 40. When mathematicians describe this as commutative, the word refers to the fact that the numbers can be moved. Like 'commuter', the word 'commutative' relates to travelling or movement.

What Do Children Learn in Division in Year 2?

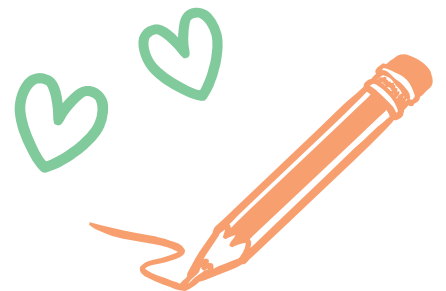
Division, like multiplication, is taught in practical and visual ways. For example, children are given a fixed number of objects and divide them into groups - with an equal number in each group. If they are given ten grapes and two bowls, a child should share the grapes equally between the bowls, by counting them out, and discover that ten grapes divided between two bowls gives five grapes in each bowl. Some children will also be able to realise that multiplication is the reverse of division: sharing ten grapes into two bowls gives five in each bowl and that also two bowls of five grapes gives ten grapes in total.

What Signs and Symbols Are Used in Multiplication and Division?

In year 2, formal calculations using the symbols for multiplication (\times), division (\div) and equals ($=$) are usually taught. Children do not generally learn about vertical or column presentation for multiplication at this stage nor are they taught the 'bus stop' method of showing a division calculation. Unless you know your child has been taught this way, avoid writing calculations like this as it can cause confusion. Stick to writing horizontally, for example:

$$3 \times 2 = 6 \text{ or } 10 \div 5 = 2$$

Attaching sticky notes with the matching calculation written on when you multiply or divide objects with your child practically can be a great way to help them make the link between written calculations and practical activity.



As well as using the resources in this category, and the keyword searches to help your child with multiplication, below are a few ideas for games and activities to help your child practise multiplication at home.

Double That Portion!

Baking is always great fun for children of infant school age. Taking a simple recipe and doubling it to make twice as much is a great way to reinforce the two times table as doubling. Be sure to double the amount of all the ingredients. Top tip: use recipes that produce individual portions, such as biscuits or fairy cakes. Baking times are complicated to calculate if you try baking a larger cake than the one given in the recipe. With larger batches of biscuits or individual cakes, you can keep the cooking time the same.

Which Table?

Once your child is familiar with the 2, 5 and 10 times tables, try calling out a number and asking your child to say which table it is from. This may be a simple game but not only does it teach them to work with random times tables, it also helps to develop their understanding that ten, for example, is an answer in the 2, 5 and 10 times tables.

Times Tables Games

Try our lovely **Times Table Board Games** to help your child practise their 2, 5 and 10 times tables.



Introducing Multiplication

Most children will have started multiplying in year 1 but this PowerPoint is a great recap to start the learning journey in year 2. It will help you to discuss multiplication by 2, 5 and 10 with your child. It uses colourful images of **arrays** (objects arranged in rows) to help your child to calculate answers. The follow-up worksheets use similar images and help to prepare your child for an increasing emphasis on number-based calculations in year 2. Start with the one-star worksheets to begin with and then move on to higher-level work as soon as your child is confident. Encourage your child to use several ways of getting to an answer: counting in 2s, 5s or 10s, using repeated addition (5 add 5 is 10, add another 5 is 15...) or by counting up the total.

Step 1

Step 2

Colour by Tables

Once your child's confidence with the 2, 5 and 10 times tables has reached the three-star level in step 1, these lovely colour-by-number sheets are a great way for them to practise and extend their times tables knowledge. Children calculate the answers to the times tables questions and use a key to complete the colouring.

Division Challenge Cards

These colourful cards can be displayed on a computer screen/mobile device or printed out. For each card, ask your child to count how many objects (e.g. apples) they see and then add them one at a time to each bowl. Some children find this easier if they can put a cross through an apple each time they put a mark in a bowl. To extend your child's learning, talk about how to write the challenge as a calculation. For example, if they have divided fifteen apples into five bowls and have now got three apples in each bowl, they would write this as $15 \div 5 = 3$.

Step 3

Step 4

Division Mastery

These engaging maths mastery cards cover each step of year 2 multiplication and division, including how multiplication can be reversed, how calculations are written, basic times tables and simple word problems. These cards will really challenge your child and give them an opportunity to put everything they have learned about multiplication and division into practice. Sometimes, they will need to perform several calculations in order to work out the answer so ensure they have mastered steps 1, 2 and 3 before they begin.

Explore and Discover More

Twinkl Go! is a digital platform, hosting interactive content such as videos, games, audiobooks and more. Twinkl Go! enables digital content to be streamed to your computer or mobile device.



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Book Club

Twinkl Book Club is our book subscription service. Enjoy our original works of fiction in beautiful printed form, delivered to you each half-term and yours to keep!



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Boost

Twinkl Boost is a range of intervention resources, created to support and lift learning with children at every level. These include our easy-to-use SATs and Phonics Screening resources.



twinkl
imagine

Imagine resources are designed to help your children to think creatively, question and imagine. Every week, a new topic consisting of five photos, each with related activities, is created.

Twinkl Originals are engaging stories written to inspire children from EYFS to KS2. Designed to encourage a love of reading and help curriculum-wide learning through accompanying resources.



twinkl
ORIGINALS



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KIDS' TV

Twinkl Kids' TV is our wonderful YouTube channel dedicated to fun and informative video-style resources full of new and creative activities you can try at home!