

Year 2 Number and Place Value: A Step-by-Step Guide for Parents

This step-by-step explanation of year 2 number and place value can help you support your child's learning at home. The subject is broken down into manageable chunks, providing you with a simple guide to follow when learning about year 2 number and place value, either to support your child with homework or if you decide to give them some extra support. In this guide, you will find a step that matches your child's current level of understanding, along with suggested activities which can be used to support that step.

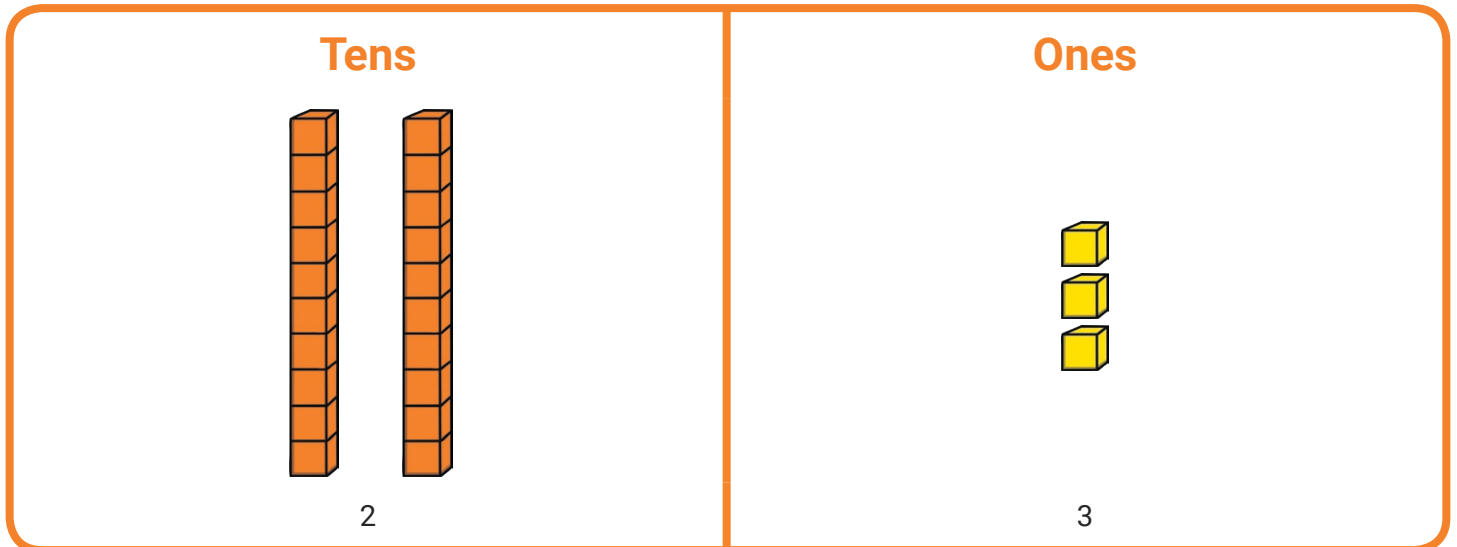
Within **this area of the website**, you will find a selection of resources intended to help your child learn about each step of this guide. Each step also contains a keyword or phrase that you can use to search the Twinkl site for more resources and activities, designed to support your child in achieving 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 However, please be aware that every child is different and information can quickly become out of date.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.

What Is Place Value and Number?

Place value is the value of a digit in a number based on its position within that number. For example, the 5 in 543 represents five hundreds or 500. Having a strong knowledge of place value is a vital skill in primary maths, which is why it is often taught as the first topic at the start of the year. In school, images and objects are often used to help children gain a deep understanding of place value:



The number blocks (or 'base ten' blocks) above show the number 23. Children can clearly see that the number is made up of two rods of ten and three individual cubes. The example above has been placed into a place value chart with the digits written below to show children how the number is represented in digits. (Digit is the term used in school to represent the individual numbers, 0-9, that make up a number). Real objects, arrow cards, place value charts, toys and many other pictures and objects are used in school to reinforce children's understanding.



What Are Children Taught about Place Value and Number in Year 2?

By the end of year 2, children are expected to be able to:

- recognise the value of each digit in a two-digit number (tens and ones) like the example above;
- count in steps of 2, 3 and 5 from zero;
- count in tens (forwards and backwards) from any given number;
- compare and order numbers up to 100 using the 'is less than' (<), 'is more than' (>) and equals (=) signs;
- read and write numbers up to 100 in words and numerals.

This guide will help you support the learning of year 2 place value and number at home. Each step contains an explanation of that stage and a link to an appropriate resource which can be used at home to support your child's learning.

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

Counting in Different Amounts

This very simple activity is a great way to help your child at home. Simply choose a step you wish to practise counting in (2s, 3s, 5s or 10s) and then count up in steps of this amount together. You could also take it in turns to say the next number in the sequence. For example, 3, 6, 9, 12, etc.

Counting Stars

Songs are an ideal way to help children learn how to count. You can find lots of songs online which count in steps of different sizes or you can make up your own counting song using a popular tune which your child knows. For example, you could try counting in steps of 3 to the tune of 'Twinkle, Twinkle, Little Star'.

Comparing Toys

This activity can help your child to compare numbers. Create two groups of toys and ask your child which is the bigger group and which is the smaller. Do this with different amounts of objects. Next, ask your child to make the groups as this will give them the opportunity to practise their counting skills as they count out the two groups.

Ordering Cards

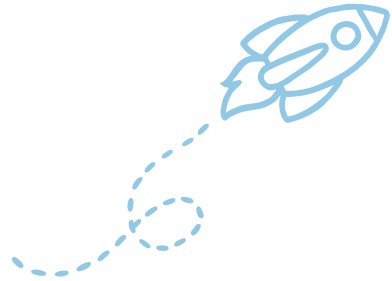
Select a group of playing cards with the numbers 1-10 on them. Mix them up and then ask your child to place them in the correct order. Once they are familiar with this, you can make it more challenging by making your own number cards with two-digit numbers on them - up to 100 - and asking your child to order a selection of them.



Step 1

Recognise the Value of Digits in a Two-Digit Number

Being able to recognise the value of digits in a two-digit number is a vital skill as it is the foundation for work in many other areas of maths. At home, you can help support your child's learning with these **Dienes Cut-Outs**. Using the rods (tens) and the cubes (ones), you can make up different numbers, such as 35 by using three rods and five cubes. Ask your child to say the number and write it in digits. This can help them learn the value of the digits in a number. You can also do this the opposite way, by writing a two-digit number and asking your child to make it using the tens and ones.



Count in 2s, 3s and 5s

At home, you can help your child to learn to count in 2s, 3s and 5s by practising counting aloud together. Use this **Missing Numbers Counting in 2s, 5s and 10s Activity Pack** or this **Missing Numbers Counting in 3s Worksheet**, which you can complete together. It may be better to focus on counting in one of the steps to begin with, such as 2s, using the counting sheet for visual support so your child can see the steps. Once you feel confident that they can count in one of the steps, begin counting in another step, such as 5s or 3s.

Step 2



Step 3

Count in 10s from Any Given Number

When counting in tens from a given number, such as 23, it is important for children to recognise that the digit in the tens column changes but the ones digit stays the same. For example, in the sequence 23, 33, 43, 53, 63, 73, the ones digit (3) stays the same as we go up in tens. At home, begin by practising in multiples of 10 from 0 and then move on to use different starting numbers. These **Counting in Tens Worksheets** can be used to help your child practise doing this. Once completed, the filled-in sheets can be used as a reference to support your child counting forwards and backwards in tens from different given numbers.



Step 4

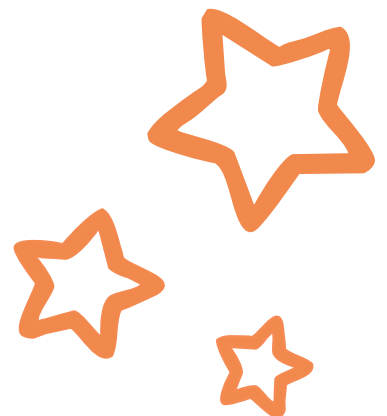
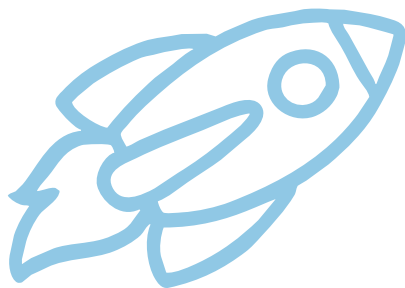
Compare and Order Numbers up to 100

In school, the symbols $<$ (is less than), $>$ (is greater than) and $=$ (is equal to) are used to help children compare numbers. For example, $55 > 51$ (55 is greater than 51), $48 < 78$ (48 is less than 78) and $7 = 2 + 5$ (7 is equal to 2 add 5). Groups of objects or pictures of groups of objects are often used to help children begin to understand these symbols as they compare the groups. At home, work with your child on these **Greater Than and Less Than Worksheets** to help them practise comparing numbers using the $<$ and $>$ symbols.

Read and Write Numbers up to 100 in Words and Numerals

In year 1, children learn to write numbers up to 20 in words. In year 2, children are then taught to extend this by writing numbers up to 100. To do this, they need to learn to spell the multiples of ten, i.e. thirty, forty, fifty, etc. At home, you can use these **Matching Numbers with Words Worksheets** to help your child practise matching the written words to the numbers. Once your child has completed these sheets, they can practise spelling the words with a game. Take it in turns to 'write' a number on each other's back with your finger (in words). The other person has to say what the number is.

Step 5



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!



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.



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Boost



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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.



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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!

