Year 3 Number and Place Value: A Step-by-Step Guide for Parents

This step-by-step explanation to year 3 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 3 number and place value, either to support your child's homework or if you decide to give your child some extra support. In this guide, you will find a step that matches your child's level of understanding, and then suggested activities which can be used to support that step.

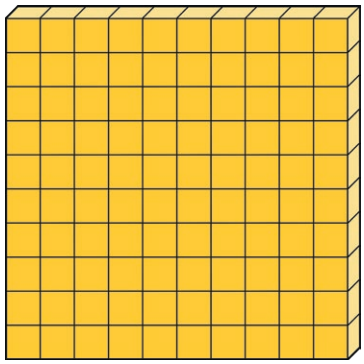
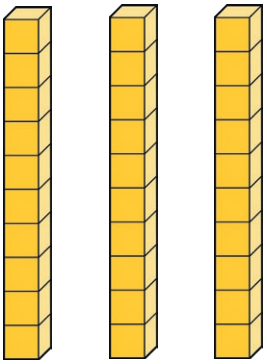
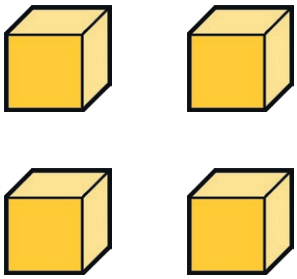
Within **this area of the website**, you will find a selection of resources intended to help your child learn about each step of this guide. Each step also contains a keyword or phrase that you can use to search the Twinkl site for more resources and activities, designed to support your child in achieving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 However, please be aware that every child is different and information can quickly become out of date.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

Number and Place Value

What Is Number and Place Value?

Place value is the value given to a digit in a number, based on the digit's position. 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 this 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 – for example, using blocks of hundreds, tens and ones.

Hundreds	Tens	Ones
		
1	3	4

The number blocks above show the number 134. Children can see that it is made up of one hundred block, three tens sticks and four ones 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 ('digits' is the term used in school to describe the individual numerals, 0-9, that make up a number). Real objects, arrow cards, place value charts, counters and many other pictures and objects are used in school to reinforce this.

What Are Children Taught about Number and Place Value in Year 3?

By the end of year 3, children are expected to be able to:

- Recognise the value of each digit in a three-digit number (like the example above).
- Compare and order numbers up to 1000.
- Read and write numbers in words and numerals up to 1000.
- Count from 0 in multiples of 4, 8, 50 and 100.
- Find 10, or 100, more or less than a given number.

Children are also expected to be able to apply all of the above to number problems and practical problems.

This guide will help you support the learning of year 3 number and place value at home. Each step contains an explanation to 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 number and place value at home.

Say the Next Number

This is a fun way to practise counting in different sequences. With your child, choose a step you are going to count in – in year 3, children learn to count in 3s, 4s and 8s. Take it in turns to say the next number in the sequence. When somebody makes a mistake in the sequence, the other person wins. Your child will enjoy playing this as they try to beat you in this sequence game.

Fizz Buzz

This is another fun counting activity you can play with your child wherever you are. Choose two multiples that you are going to practise counting up in, such as 3 and 4. Start from 0 and take turns to count up. When you reach a multiple of 3, replace it with 'fizz'. When you reach a multiple of 4, replace it with 'buzz'. When you reach a number that is a multiple of both, replace it with 'fizzbuzz'! For example: 1, 2, fizz, buzz, 5, fizz, 7, buzz, fizz, 10, 11, fizzbuzz! The first person who makes a mistake is out and the other player wins.

Digit Challenge

The digit challenge is a simple game that can be played anywhere. Ask your child to think of a number with a given digit in a place value column. For example, you may say, 'find a 3-digit number with a five in the tens column.' Your child would then have to think of a 3-digit number with fifty in it. Your child could also set you this challenge and check if your answer is right.

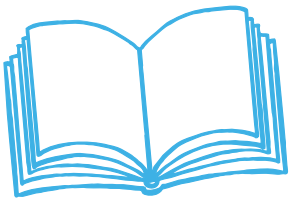
Shopping Comparison

This is a very simple way to help your child practise comparing numbers in real contexts. When shopping for items, whether big or small, find two products that are the same but different prices. For example, if you were buying a new carpet, you could show your child your top two choices. Ask your child which is the most expensive and how they know. You could also ask your child to order the prices you have seen from smallest to largest.

Step 1

Recognise the Value of Each Digit in a 3-Digit Number

The digits in a number are the individual numerals from 0-9 that make up a larger number. For example, in the number 792, the digits are 7, 9 and 2. However, these digits represent different numbers: the 7 represents 700, or seven hundreds; the 9 represents 90, or nine tens; and the 2 represents 2, or two ones. In year 3, children are taught to understand the value of each digit in a number, which helps support other areas of the maths curriculum. At home, try using these **Place Value Arrow Cards** to help support your child. Using the cards for ones, tens and hundreds, make different numbers and ask your child to say the number aloud. Then ask them to say what each digit represents. They can check if they're right by separating the cards to see what the digits represent.



Step 2

Compare and Order Numbers up to 1000

Once your child has a strong understanding of place value, they can use this to order and compare numbers. When comparing numbers, children should begin by comparing the digits in the biggest column, and then move to the next column and so forth. For example, when comparing the numbers 365 and 356, they both contain three hundreds – but when you compare the tens, 365 has more tens. This means that you then don't need to compare the ones column. At home, try using this **Ordering 3-Digit Numbers on a Number Line to 1000 Activity** to help support your child when learning to order numbers.

Step 3

Read and Write Numbers up to 1000 in Words and Numerals

Reading numbers is the ability to look at a number up to 1000 and say the number aloud, such as 948 – or read the written form of a number, such as nine hundred and forty-eight. In year 3, children also learn to write numbers in digits and words up to 1000. At home, you can use this **Reading and Writing Numbers to 1000 Worksheet** to help your child practise reading and writing numbers up to 1000. You can also practise by taking it in turns to write a number in digits (up to 1000) and the other person has to write the number in words. Try using this **Numbers in Words Mat** to help support the writing of numbers at home.

Count in Multiples of 4, 8, 50 and 100

At home, you can help your child practise counting in multiples of 4, 8, 50 and 100 by counting aloud together. You could do this at dinnertime, at bedtime, in the car or while walking to school. You can also use these **4, 8, 50, 100 Missing Multiples Worksheets** at home to practise filling in the missing numbers in a sequence of numbers. Once finished, your child can use these sheets as reference when counting in multiples aloud.

Step 4

Step 5

Find 10, or 100, More or Less from a Given Number

Once your child has a good understanding of 3-digit numbers, you can begin to practise finding 10 more and 10 less, and 100 more and less, than a given number. At home, you and your child could investigate what happens when you add or subtract 10 or 100 from a given number. Start with a random number, such as 123, and begin adding 10 while writing down the results. Discuss with your child what they notice happening. They should spot that the tens column is the only column that will change until they add 10 to a number with 9 in the tens column. Discuss what happens when subtracting 10. Once they have done this with 10s, try the same with counting forwards and backwards in hundreds. This **10 More and 10 Less Robots Worksheet** or this **100 More and 100 Less Robots Worksheet** can also help your child practise

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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.

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 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!