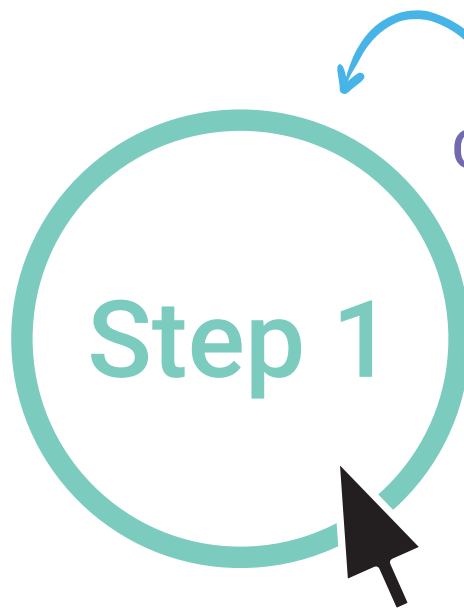


Year 3 Patterns and Sequences: A Step-by-Step Guide for Parents

This step-by-step guide to patterns and sequences 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 exploring patterns and sequences together, either as part of homework or if you decide to give your child some extra support. Whether your child is just beginning to gain confidence with patterns and sequences or they are secure in their learning and want further practice, you will find a step that matches where your child is at now and also one that gives you ideas of where to go next.

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.

Year 3 patterns and sequences



Click here



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 However, please be aware that every child is different and information can quickly become out of date.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.

Patterns and Sequences

What Are Patterns and Sequences?

In mathematics, patterns and sequences often refer to a set of objects – usually numbers – that follow a distinct order or rule. Patterns and sequences are important because, by studying them, they allow us to predict trends and interpret statistics.

In year 3, your child will continue to build on their work in KS1, counting in 2s, 3s, 4s, 5s, 8s, 10s, 50s and 100s. They may be asked to work out the rule behind a number sequence to find out what is happening each time. For example, in the number sequence 2, 4, 6, 8... the rule is 'add 2'. By working this out, your child will be able to predict future numbers in the sequence, as well as find missing numbers in the sequence.

Your child will also practise adding ones, tens and hundreds to numbers. They will be encouraged to look for patterns and predict answers using the patterns they have identified.

You can use the resources in this category and the suggested keyword searches to help your child learn about patterns and sequences at home. Ideas for games and activities to help your child practise and become more familiar with the concept of patterns and sequences are outlined below.

Dice Game

Give your child a start number, for example, 5 or 10. Now ask them to throw a dice. Can they count on in steps using the number thrown, creating a five-step number sequence? For example, if the start number was 5 and the number thrown was 4, they count on from 5 in 4s: 5, 9, 13, 17, 21. Ask them to throw the dice again and create a different number sequence.

Hundred Square Patterns

Download our free **Hundred Number Square** resource. Ask your child to count in 3s, colouring the numbered squares as they go (3, 6, 9, 12...). Can they see a pattern? Stop them at a certain point and ask if they can predict what other numbers up to 100 might follow the pattern. Investigate other sequences, such as counting in 8s and 9s.

Lolly Stick Challenge

Provide your child with different coloured lolly sticks and ask them to make a shape using the lolly sticks. Can they create the shape exactly again to show a repeating pattern? Try our **Lolly Stick Shape and Pattern Cards** for inspiration.

Paper Chains

Cut out strips of paper and ask your child to count in 4s. Write each multiple of 4 (4, 8, 12, 16...) on a separate strip of paper and then link the strips together to create a paper chain showing multiples of 4. Repeat with multiples of 8 (8, 16, 24, 32...).

Step 1

Continuing Number Sequences and Finding Missing Numbers

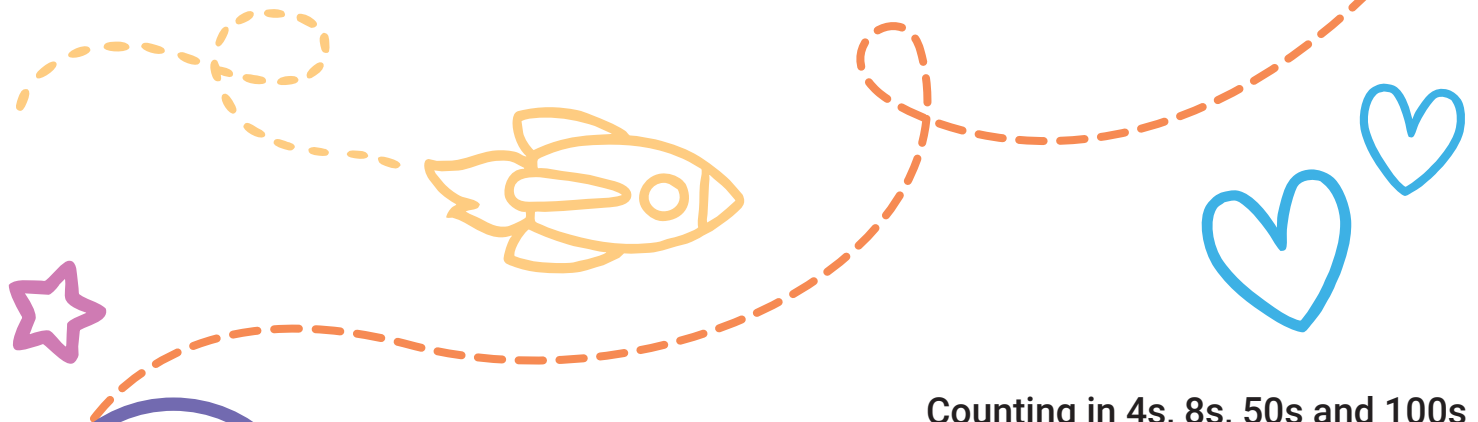
At this stage, your child may investigate number patterns and sequences during maths lessons. They may be encouraged to extend a number sequence following a given rule or find missing numbers in a pattern according to a rule. You can access a range of activity sheets on the Twinkl Parents' Hub to help your child practise these skills at home.



Identifying Number Pattern Rules

Once your child has become familiar with extending number patterns and sequences using a given rule, they may then be encouraged to identify the rule being applied to numbers in a sequence. For example, if they were given the sequence 14, 18, 22..., they would need to work out that the rule is 'add 4' each time. You can use our activity sheets to reinforce learning in this area at home and then extend your child's thinking by encouraging them to create a number sequence of their own.

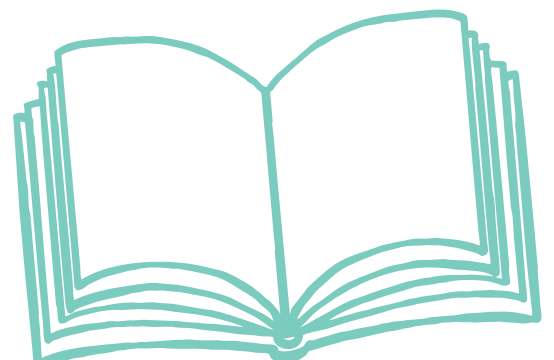
Step 2



Step 3

Counting in 4s, 8s, 50s and 100s

In year 3, children build on their learning in KS1 to count on in 4s, 8s, 50s and 100s. Try our activity sheets to help your child count on in these intervals and then try our **Number Sequences Paper Chain Activity** to help reinforce their learning in this area.



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.

The Twinkl Go! logo, featuring the word 'twinkl' in a blue cloud shape and 'Go!' in white text below it, all within a blue circular background.Two simple line-art lightbulbs, one larger than the other, positioned to the right of the Twinkl Go! logo.The Twinkl Book Club logo, featuring the word 'twinkl' in a blue cloud shape and 'Book Club' in a colorful, blocky font below it, all within a blue circular background.Three orange stars of varying sizes arranged in a diagonal line to the left of the Twinkl Book Club logo.

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!

The Twinkl Boost logo, featuring the word 'twinkl' in a blue cloud shape and 'Boost' in white text below it, all within a blue circular background.A green line-art rocket ship pointing upwards and to the right, positioned to the right of the Twinkl Boost logo.

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.

The Twinkl Imagine logo, featuring the word 'twinkl' in a blue cloud shape and 'imagine' in a white, lowercase font below it, all within a blue circular background.Two purple hearts of different sizes, one larger than the other, positioned to the left of the Twinkl Imagine logo.

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.

The Twinkl Originals logo, featuring the word 'twinkl' in a blue cloud shape and 'ORIGINALS' in a white, all-caps font below it, all within a blue circular background.

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.

The Twinkl Kids' TV logo, featuring the word 'twinkl' in a blue cloud shape and 'KIDS' TV' in a colorful, blocky font below it, all within a blue circular background.Two teal speech bubbles, one larger than the other, positioned to the right of the Twinkl Kids' TV logo.

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!