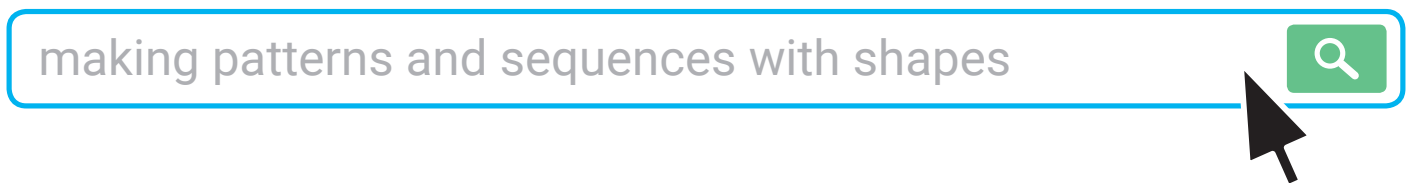


# Year 2 Patterns and Sequences: A Step-by-Step Guide for Parents

This step-by-step explanation 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 to support your child's homework, or if you decide to give your child some extra support. Whether your child is only just beginning to learn about patterns and sequences, or they are gaining confidence and want further practice, you will find a step that matches your child's stage of learning as well as some ideas for the next steps in your child's learning.

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 However, please be aware that every child is different and information can quickly become out of date.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

# 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.

Your child may be asked to work out a 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' each time. By finding this out, your child will be able to predict what future numbers in the sequence will be, as well as to find missing numbers in the sequence.

In year 2, your child will continue to build on the knowledge they gained during year 1 about patterns and repeating patterns. At this stage, they may create patterns with shapes and objects that involve turns and directions, using the terms 'quarter', 'half' and 'three-quarter turns', along with the words 'clockwise' and 'anticlockwise' to describe what is happening. When they place shapes in different orientations, children are encouraged to recognise that it is still the same shape. Once they are confident with patterns involving shapes, your child may go on to investigate sequences and patterns using numbers.

As well as using the resources in this category and the keyword searches suggested to help your child learn about patterns and sequences, below are a few ideas for games and activities to help your child practise and become more familiar with the concept of patterns and sequences at home.

## Everyday Patterns

Take note of patterns you see in everyday life, such as on a floor or tiles on the side of a building. Discuss the different patterns you see. What shapes form the patterns? How would you continue the pattern? Could you draw the same pattern at home?

## Stand Up, Sit Down

Players stand up. Say a simple number sequence out loud, for example, count forwards or backwards or count in 2s, 5s or 10s. Deliberately miss out one of the numbers in the sequence. When your child spots a missing number, they have to sit down as quickly as possible.

## Hundred Square Sequences

Use our **Interactive Hundred Square** as a visual aid to discover number patterns. Start by colouring every second number on the square. Ask your child what they think the pattern is. Can they repeat it? What other number patterns could you make?

## Domino Patterns

Give your child a set of dominoes and ask them to create a pattern with the dots on the dominoes, for example, a chain where the ends of the two dominoes match. They could use all or some of the dominoes. Can they explain the reason behind their pattern?



## Step 1

### Making Patterns and Sequences with Shapes

At this stage, your child will continue to build on their learning in year 1 by creating patterns with shapes by now including shapes that have been moved into different positions and orientations. See our selection of activity sheets and games to help consolidate learning in this area.



### Making Patterns and Sequences with Objects

You can continue to explore sequences and patterns together by using objects in the home with a range of different activities, including threading beads and building blocks. Search our **Parents' Hub** for inspiration.

## Step 2

## Step 3

### Making Patterns and Sequences with Numbers

At this stage, your child may start to experiment with patterns and sequences involving numbers. Start counting in 2s, 3s, 5s and 10s, forwards and backwards, for example. You can find a selection of missing number activity sheets where children are required to fill in the missing spaces in sequences to help consolidate this key skill.



# 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.



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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.



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ORIGINALS

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!