

# Year 4 Statistics and Data Handling: A Step-by-Step Guide for Parents

This step-by-step explanation to statistics and data handling 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 statistics and data handling together, either as part of homework or if you decide to give your child some extra support. Whether your child is only just beginning to explore statistics and data handling, or they are gaining confidence in this area of maths and want to find out more, you will find a step that matches where your child is at then have ideas for 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.



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 However, please be aware that every child is different and information can quickly become out of date.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

# Statistics and Data Handling

## What Are Statistics and Data Handling?

When children study statistics and data handling at primary school, they are essentially looking at ways of gathering and recording information, then presenting the information in a way which is easy for others to read and understand. Bar charts, pictograms and tables are just some of the ways children may present their information at school during lower key stage 2.

In year 4, your child will learn about discrete and continuous data. Discrete data is information that can be counted and has a finite, or fixed, number of possible values, for example days of the week or the number of children in a given class. Continuous data is where information can take on any value within a given range, for example temperatures in the UK can have many different values within a scale of temperatures recorded on Earth.

Children will learn how to plot discrete and continuous data in an appropriate way, for example on bar charts and time graphs. See our **statistics Wiki page** for explanation. A time graph shows changing data over time. They can either be in bar chart or line graph format.

In year 4, your child will also be expected to continue their work in previous years to compare and interpret data in a bar chart, pictogram and table. As well as using the resources in this category and the keyword searches to help your child with statistics and data handling, below are a few ideas for activities to help your child make progress in this area.

### Make Your Own Bar Chart

Use our **free bar chart template** to encourage your child to create their own bar chart. Think of a topic to collect data about, for example the different types of vehicle you can see driving outside your house during a given time. Ask your child to present the information in a bar chart then generate questions for other people to answer.

### Year 4 Statistics Maths Knowledge Organiser

You can support your child at home with statistics by downloading these **fantastic maths organisers**. Each organiser contains key objectives and vocabulary along with visual representations. Perfect to reinforce learning at home.

### Take It Outside

Try some physical activities outside with your child, such as keepie uppies (keeping the ball off the ground by kicking it) or continuously bouncing a ball with your hand. Time 30 seconds to see how many of each activity everyone taking part can do then record it in a bar chart.

### Explore Line Graphs Together

Download this **Sunflower Line Graph Worksheet** and discuss how to interpret the data. Discuss what's along the x and y axis and what each cross on the line graph shows. Use the questions on the resource as prompts for further learning.





## Step 1

### Constructing and Interpreting Bar Charts, Pictograms and Tables

Our **PowerPoints** and activity sheets provide your child with a range of opportunities to read, understand and interpret data in various different forms, from bar charts to tally charts, pictograms and tables. Search our parents' hub for an activity to support your child's learning.



## Step 2

Download our **posters** and **PowerPoints** to help your child reinforce their learning on discrete and continuous data. The posters offer a simple explanation of what each type of data is and our PowerPoint shows ways in which both types of data can be displayed and understood.




## Step 3



### Mastery Activities

Once your child is confident with collecting, displaying and interpreting data, take a look at our statistics mastery activities to extend your child's thinking and provide them with further learning challenges. Our PowerPoints and resource packs are a great way to extend their thinking further on this subject.



# Explore and Discover More

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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 pupils 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!