

# Year 3 Statistics and Data Handling: A Step-by-Step Guide for Parents

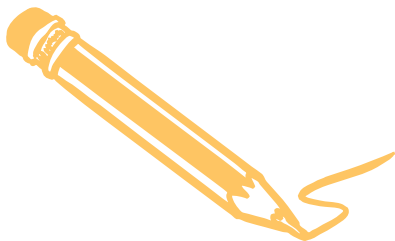
This step-by-step explanation to statistics and data handling can help you support your child's learning at home. The subject is broken down into manageable chunks, providing you with a simple guide to follow when exploring statistics and data handling together, either as part of homework or if you decide 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.

statistics and data handling



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 However, please be aware that every child is different and information can quickly become out of date.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

# Statistics and Data Handling

## What Is Statistics and Data Handling?

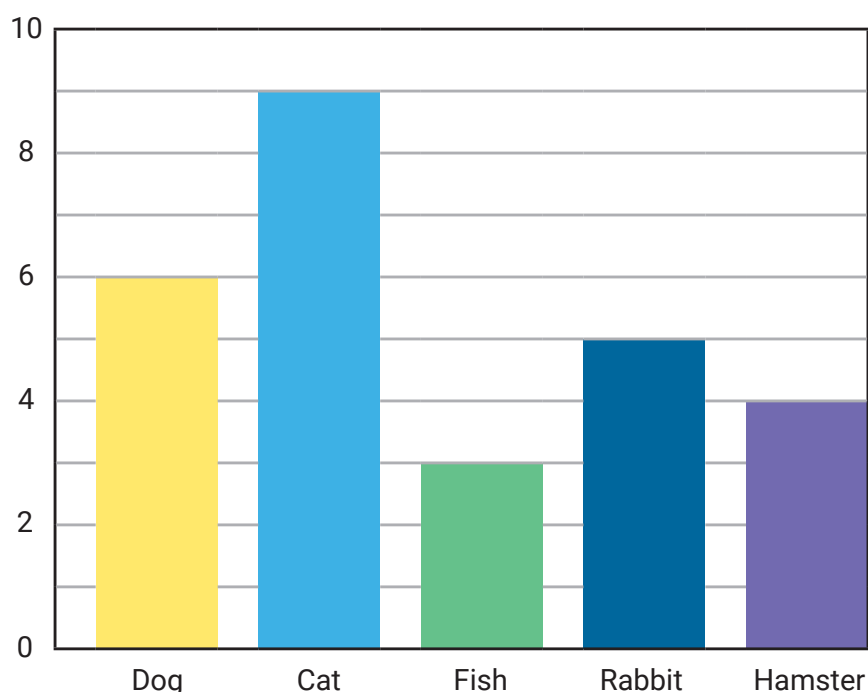
When children study statistics and data handling at primary school, they are essentially looking at ways of gathering and recording information then presenting the information in a way which is easy for others to read and understand. Bar charts, pictograms and tables are just some of the ways children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

In year 3, your child will learn how to create and interpret pictograms, bar charts and tables. They will answer questions about sets of data and may also be asked to compare data.

For an explanation of what tables and pictograms are, please see our year 2 parent guide to statistics and data handling. In year 3, your child may also be asked to interpret and construct a scaled pictogram, where one picture may represent 2, 5 or 10 objects.

A bar chart is the next step on from a block diagram (see our year 2 parent guide to statistics and data handling for an explanation of what a block diagram is). A bar chart, or bar graph, is a fantastic way to present data in a visual way, allowing the reader to see immediately which is the most or least popular item in a set of data.

Bar charts involve drawing a horizontal line (the x axis) with labels and a vertical line (the y axis) with numbers alongside it. Bars are drawn to a height that corresponds with the numbers on the y axis. The numbers on the y axis may be scaled, for example going up in 2s, 5s or 10s depending on how much information there is. Below is an example of a scaled bar chart:



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 games and 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.

### Human Bar Charts

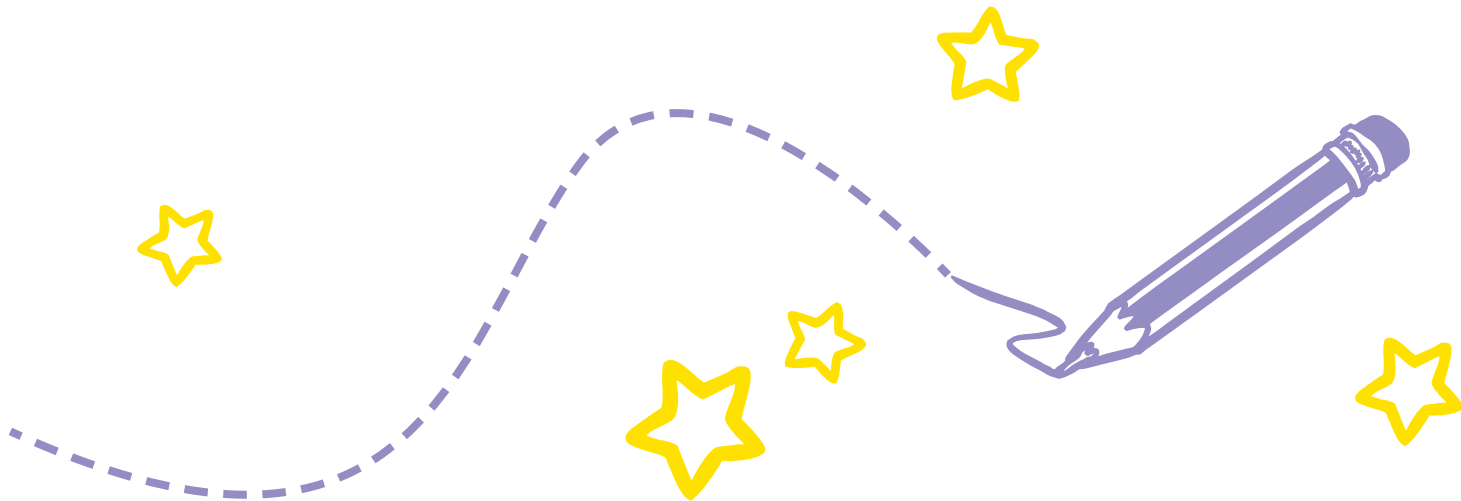
If you have a group of children, have a go at creating a human bar chart. Use parcel tape to make an x and y axis on the floor then pick a subject to survey, for example favourite ice cream flavours. Use post-it notes to label the x axis then get the children to sit in a line behind their favourite flavour to show the 'data'.

### Take It Outside

Try some physical activities outside with your child and their friends, 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.

### Chocolate Challenge

Empty a packet of colourful chocolates onto a table. Ask your child to sort them according to colour. How can they record the information so that it's easy to read and understand?



## Step 1

### Constructing Scaled Pictograms

A pictogram uses pictures to represent data. With scaled pictograms, one picture can represent several pieces of data. Download **activity sheets** and **PowerPoints** to support your child's understanding of how to construct and interpret pictograms and decide what scale to use.



## Constructing Tables

Tables are an important way of recording information, clearly showing the sets of data relevant to each item. The resources on our **parents' hub** – including **full teaching packs** – are a fun way to help your child reinforce their learning about data handling at home.

## Step 2

## Step 3

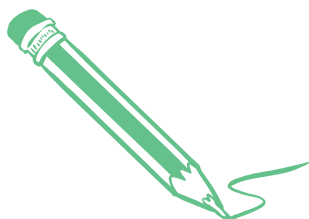
### Constructing Bar Charts

Constructing bar charts requires accuracy and is a useful skill to practise at home. Our **worksheets** and **PowerPoints** provide a range of opportunities for your child to do this, as well as giving them the chance to interpret data and ask and answer questions about it.



### 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 **challenge cards** are a great way to extend their thinking further on this subject.



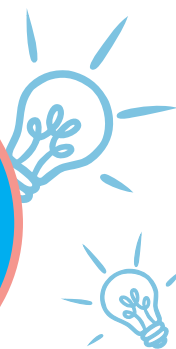
## Step 4

# 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.



twinkl  
Go!



twinkl  
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.



twinkl  
Boost



twinkl  
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.



twinkl  
ORIGINALS



twinkl  
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!

