

Data Detectives: Mastering Information

Uncover the patterns, reveal the truth: Become a Data Detective!

- **Data collection is the systematic process of gathering information to answer a specific question or test a hypothesis.**
- **A spreadsheet uses rows and columns to organise data, allowing us to perform calculations and identify trends quickly.**
- **Discrete data can only take specific values, such as the number of students in a class or the amount of fruit in a bowl.**
- **Continuous data can take any value within a range, such as measuring the exact height of a sunflower or the temperature throughout the day.**
- **Data visualisation, such as using bar charts or line graphs, helps us communicate complex information in a clear, accessible way.**
- **Kit the fox uses clever algorithms to sort and filter large datasets, ensuring information is accurate and easy to retrieve.**

Did you know? Did you know? In the digital world, data is often stored in binary code—a series of 1s and 0s. Even the most complex video games or detailed images you see on a screen start their life as simple, organised pieces of data that a computer processes at lightning speed!

Key vocabulary: Database · Discrete data · Continuous data · Spreadsheet · Frequency · Variable · Algorithm · Visualisation