

Kit's Data Detective Log: Analysing Our World

Learning objective: To collect, organize, and interpret data using frequency tables and charts to answer scientific or social questions.

Help Kit the fox organize information! Choose a topic (e.g., favorite fruits in class, types of vehicles seen outside, or classroom stationery), collect your data, and use this log to record your findings and conclusions.

Word bank: frequency · tally · data · table · categories · pattern · total · conclusion · variable · record

1. The Research Question: What specific question are you trying to answer by collecting this data? Explain why this information is useful. (2 marks)

2. Data Collection Plan: List your categories (e.g., Apple, Banana, Pear) and describe how you will accurately record your tally marks. (3 marks)

3. Tally and Frequency Table: Draw a table with three columns: Category, Tally, and Total Frequency. Ensure you have at least 4 categories. (4 marks)

4. Data Visualisation: Describe which type of chart (bar chart, line graph, or pictogram) would be best to display your findings and explain why. (2 marks)

5. Findings and Conclusions: Look at your total frequencies. What is the most common result? Is there anything that surprised you? Write your final conclusion. (3 marks)

Extension challenge: Create a bar chart on squared paper using your frequency totals. Ensure your axes are labelled clearly and your scale is accurate.