

# Kit's Computing Data Investigator Log

*Learning objective: To collect, organise, and interpret data sets using logical reasoning and structured presentation.*

Join Kit the fox in investigating a real-world pattern! Choose a data set to observe—such as the types of vehicles passing your school gate or the colours of stationery in your pencil case. Use this log to define your parameters, record your findings in a table, and draw logical conclusions based on the evidence you have gathered.

*Word bank: Data · Variable · Frequency · Categorical · Discrete · Trend · Anomalies · Interpretation*

**1. Research Question: What specific data are you investigating, and what is your hypothesis for the result? (2 marks)**

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**2. Data Collection Table: Create a table below with appropriate column headers to record your frequency counts for each category. (4 marks)**

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**3. Explain why you chose this method of data collection. Could your method be improved to avoid errors? (3 marks)**

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**4. Identify any anomalies in your data. Why might these results have occurred? (3 marks)**

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**5. Compare and contrast your findings with a partner. Did their data set follow a similar trend to yours? (3 marks)**

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**6. Justify your answer: Based on your evidence, what conclusion can you draw about your chosen subject? (4 marks)**

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*Extension challenge: Imagine you have been asked to present this data to a school assembly. Design a digital graph (a bar chart or pie chart) that would clearly communicate your findings to an audience. What might happen if you presented the same data using a different type of chart? Justify why your chosen graph is the most effective way to represent this information.*