

Kit's Computing Lab: Designing Your Own Database

Learning objective: Understand how a database organises information into records, fields, and categories using a structured format.

Kit the Fox is building a library database for his forest friends. Follow the steps below to design a database entry form and organise the information correctly.

Draw: Draw a large, rectangular digital 'form' on a computer screen. Inside the form, draw four distinct rows labelled 'Book Title', 'Author', 'Genre', and 'Publication Year'. On the right side of your drawing, sketch Kit the Fox holding a magnifying glass, looking at a set of 'Records' (represented as stacked paper sheets). Use a clean, technical style with straight lines for the form borders and soft, friendly colours for Kit.



Label words: Record · Field · Database · Query · Category · Entry

Steps:

1. Explain why it is important for a database to use consistent 'Fields' (headings) for every item in a collection.
2. If Kit wants to find all the books about 'Space' in his database, what kind of 'Query' would he need to perform?
3. Compare and contrast a paper filing cabinet with a digital database. What is one advantage of using the

digital version?

4. Justify your answer: Why might a database be considered 'inaccurate' if the person entering the data makes a spelling mistake?

5. What might happen if a database did not have clear, organised fields for its data?

6. Create a new field that Kit could add to his database to help him keep track of which friend has borrowed a book.