

Kit's Database Designer: Organising My Collection

Learning objective: To understand how to structure data into records and fields to create a functional database.

Kit the fox loves to keep his gadgets and tools organised using databases. A database is a way of storing information so it is easy to search and sort. Use this template to design a database for a collection of your choice (e.g., books, sports equipment, or garden plants). You must define your 'fields' (categories) and then list your 'records' (the individual items).

Word bank: Field · Record · Database · Data · Sort · Query · Category · Information

1. Database Topic: What is the theme of your collection? Write a title for your database and describe what kind of items you are storing. (2 marks)

2. Defining Fields: List 4 distinct categories (fields) you need to describe every item in your collection (e.g., Name, Date Purchased, Price in £, Condition). (4 marks)

3. Data Entry: Create a sample record for one item in your collection using the fields you listed above. (4 marks)

4. Searching and Sorting: If you had 100 items in this database, which field would be most useful to 'sort' by? Explain why. (3 marks)

5. Querying: Write a question you could ask your database to find specific information (e.g., 'Show me all items that cost less than £5.00'). (2 marks)

Extension challenge: Design a 'search bar' at the bottom of the page. Write down three specific filters or criteria a user could type into your search bar to find a specific item quickly.