



Computing Progression - Data and Information: Understand how data is stored, organised, and used to represent real-world artefacts and scenarios

Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Across KS1 pupils will:	In lower KS2 pupils will:	In upper KS2 pupils will:
Identify the label for a group of objects. Group objects. Describe a property of an object. Count how many objects share a property. Record how many objects are in a group. Compare groups of objects. Decide how to group objects to answer a question. Record and share what I have found. Record data in a tally chart. Represent a tally count as a total. Enter data onto a computer. Use a computer to view data in a different format. Use pictograms to answer simple questions about objects.	Create two groups of objects separated by one attribute. Investigate questions with yes/no answers. Make up a yes/no question about a collection of objects. Select objects to arrange in a branching database. Compare two branching database structures. Create yes/no questions using given attributes. Explain that questions need to be ordered carefully to split objects into similarly sized groups. Create a physical version of a branching database. Suggest real-world uses for branching databases. Choose a data set to answer a given question. Identify data that can be gathered over time. Suggest questions that can be answered using a given data set.	Create a database using cards. Explain how information can be recorded. Choose which field to sort data by to answer a given question. Explain what a field and a record is in a database. Navigate a flat-file database to compare different views of information. Explain that data can be grouped using chosen values. Group information using a database. Choose which field and value are required to answer a given question. Explain the benefits of using a computer to create charts. Refine a chart by selecting a particular filter. Select an appropriate chart to visually compare data.

Use a tally chart to create a pictogram. Create a pictogram to arrange objects by an attribute. Give simple examples of why information should not be shared. Share what they have found out using a computer. Use a computer program to present information in different ways.	Explain what data can be collected using sensors. Identify that data from sensors can be recorded. Use data from a sensor to answer a given question. Identify the intervals used to collect data. Recognise that a data logger collects data at given points. Talk about the data that they have captured. Sort data to find information. View data at different levels of detail. Use a data logger to collect data. Interpret data that has been collected using a data logger.	Refine a search in a real-world context. Collect data. Enter data into a spreadsheet. Suggest how to structure my data. Apply an appropriate format to a cell. Choose an appropriate format for a cell. Explain what an item of data is. Construct a formula in a spreadsheet. Apply a formula to multiple cells by duplicating it. Use a spreadsheet to answer questions. Use a chart to show the answer to questions.
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