










Summer 1	Flat-file databases					
<b>Prior learning</b> 	Starting in year 1, the children have been exploring data and the ways to present and gather it. The children have looked at pictograms, branching databases and data logging previous to this unit. All of this knowledge will provide them of a basis of data collection to support them in this unit.					
<b>Lesson objective</b> 	To use a form to record information	To compare paper and computer-based databases	To outline how you can answer questions by grouping and then sorting data	To explain that tools can be used to select specific data	To explain that computer programs can be used to compare data visually	To use a real-world database to answer questions
<b>Key vocabulary</b> 	Database, data, information, record, field, sort, order, group	Database, data, field, record, sort, order	Database, record, field, group, search, sort, order	Database, record, field, value, search, criteria	Database, record, field, graph, chart, axis, compare, filter	Database, field, record, graph, chart, presentation
<b>Creative context</b> 	BBC bitesize: <a href="https://www.bbc.co.uk/teach/class-clips-video/articles/zp84g7h">https://www.bbc.co.uk/teach/class-clips-video/articles/zp84g7h</a> <a href="https://www.bbc.co.uk/bitesize/articles/z8yk87h#z7rxp9q">https://www.bbc.co.uk/bitesize/articles/z8yk87h#z7rxp9q</a> As part of this unit (lesson 6), the children will role play as a travel agent by looking at a real-life flight search database.					
<b>Substantive knowledge</b> 	I know that 'data' can be letters, words, numbers, dates, images, sounds, etc. I know that information is data that has been processed. I know that a database is a collection of data that is usually stored in a computer.	I know that data can be sorted in a variety of ways (form and table). I know the advantages and disadvantages of data views.	I know why computer-based databases are used – security, large amounts of data, quicker, easier and prevents manual errors. I know that Sorting means 'putting data values in order'. I know that data can sometimes be incorrect due to human error.	I know that you can search a database for a field containing a specific value. I know that some searches will involve using more than one criteria, by using the 'and' and 'or' tools.	I know that a chart needs to be relevant to a problem or question to be useful.	I know the real-life uses of databases. I know that real-life databased might change regularly.
<b>Disciplinary knowledge</b> 	I know how to record data. I know how to organise and sort data.	I know how to identify the different views, records and fields of the database.	I know how to evaluate the reliability of a method. I know how to use J2E countries database.	I know how to use the 'and' and 'or' tools to search for multiple fields.	I know to analyse a chart. I know how to create a chart using data from a database.	I know how to create a presentation. I know how to screenshot. I know how to navigate a database.
<b>Recorded learning</b>	Children will create records about 8-10	Children will identify the advantages and disadvantages to	Children will answer a series of questions by using	Children will answer a series of questions by using the 'and' / 'or' tools.	Children will use premade data to	Children will use a real-life database to answer questions in

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	<p>animals, then sort and order them.</p>	<p>different data views, They will then label the record and fields in a data base.</p>	<p>sorting and grouping a database.</p>		<p>create a chart in order to answer questions.</p>	<p>the context of flight search. They will present the best options for flights.</p>
<p><b>Outcome for unit</b></p> 	<p>Unit outcome: A presentation from lesson 6, where the children used a database to search for flights and role playing as a travel agent.</p> <p>End of unit evaluation – Please complete the teacher/self evaluation slide for this unit (the slide is in the folder), by writing their names in the correct boxes.</p>					
<p><b>Future learning</b></p> 	<p>In year 6, the children will continue to explore data in computing – looking specifically how to use programs like excel. The current topic will provide a stronger base for the children to build on in year 6, and with other future computer development.</p>					