

 <p>Crosby Primary School</p>	<p>Computing Medium Term Plan Year - Autumn Term 1</p>	<p>Cycle A Unit – (6 Weeks) Y 5 6 Databases</p>
<p>National Curriculum (Core Learning)</p> <p>NC LINKS Computing</p> <p>1. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>2. Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems, and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information.</p> <p>Curriculum Links Maths – Statistics Complete, read and interpret information in tables, including timetables.</p>	<p>Builds on knowledge of key stage 1. Grouping Data unit 1.4. and Branching database unit 3.4.</p> <p>Assessment: Opportunities are detailed in each lesson plan. Summative assessment document of multiple-choice questions.</p> <p>Vocabulary Generic vocabulary: axis, chart, data, graph, group, information, order, presentation, sort and search.</p> <p>New Topic vocabulary: Criteria: a standard by which something can be judged. Database : A database is composed of ‘records’, which are sets of data on a particular object. Field : A field is one specific piece of data in a database record. For example, a record all about a country could have fields such as ‘country name’ and ‘country population’ Filtering: In data-base systems filtering retrieves specific records that meet certain criteria. Records : Records are formed from one or more ‘fields’ of data. Value: The value within the record is the ‘answer’ to each field,</p>	<p>Resources</p> <p>Visit: Teach it website https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases</p> <p>For Unit Plan, Lesson Plans unit plans and Learning Graphs</p>
<p>Lesson Sequence</p>		
<p>Learning Objective</p> <p>L1 LO To use a form to record information Success criteria: Create a database using cards. Explain how information can be recorded. Order, sort, and group my data cards.</p>	<p>Core Knowledge</p> <p>Procedural Knowledge (Skills):</p> <p>Select an appropriate graph to visually compare data. Ask questions that need more than one attribute to answer. To choose: different ways to view data; multiple criteria to search data to answer a given question (AND and OR); suitable ways to present information to other people. To choose which attribute:</p>	<p>Additional Information</p> <p>L1 See lesson plan and presentation https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases/creating-a-paper-based-database</p> <p>Use Key Questions What is a database? Where have you heard the word ‘database’? What do you know about the word ‘data’? Were they easy to sort? How long did it take? Did anyone make any errors?</p> <p>What would happen if we combined all the class records and sorted those alphabetically?</p>

<p>L2 LO To compare paper and computer-based databases Success criteria: Explain what a field and a record is in a database. Navigate a flat-file database to compare different views of information. Choose which field to sort data by to answer a given question</p>	<p>to sort data by to answer a given question; and value to search by to answer a given question (operands)</p> <p>Propositional Knowledge (Concepts):</p>	<p>L2 See lesson plan and presentation https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases/computer-databases</p> <p>Use Key Questions What is a record? What is a field? What other fields could you add to these databases?</p>
<p>L3 LO To outline how you can answer questions by grouping and then sorting data. Success criteria: Explain that data can be grouped using chosen values. Group information using a database. Combine grouping and sorting to answer specific questions.</p>	<p>To explain that: a computer program can be used to organise data; tools can be used to select data to answer questions; computer programs can be used to compare data visually; we present information to communicate a message.</p>	<p>L3 See lesson plan and presentation https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases/using-a-database</p> <p>Use Key Questions How reliable do you think this method is? How does this method compare with the manual grouping you carried out in Lesson 1? Which method do you think is better and why? How well would this method work if you had 2,000 records in your database?</p>
<p>L4 LO To explain that tools can be used to select specific data. Success criteria: Choose which field and value are required to answer a given question. Outline how 'AND' and 'OR' can be used to refine data selection. Choose multiple criteria to answer a given question.</p>	<p>To outline how: ordering data allows us to answer some questions; operands can be used to filter data; 'AND' and 'OR' can be used to refine data selection.</p>	<p>L4 See lesson plan and presentation https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases/using-search-tools</p> <p>Use Key Questions Can you think of an 'AND' or 'OR' search you might carry out?</p>
<p>L5 LO To explain that computer programs can be used to compare data visually. Success criteria: Select an appropriate chart to visually compare data. Refine a chart by selecting a particular filter. Explain the benefits of using a computer to create charts.</p>		<p>L5 See Lesson plan and presentation https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases/comparing-data-visually</p> <p>Use Key Questions What does this chart tell us? Which chart answers the question best? What question could this chart answer?</p>
<p>L6 LO To use a real-world database to answer questions. Success criteria: Ask questions that will need more than one field to answer. Refine a search in a real-world context. Present my findings to a group.</p>		<p>L6 See Lesson plan and presentation https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases/databases-in-real-life</p> <p>Use Key Questions What data do you think these databases would store? How can we search a flight database?How well do the suggested flights meet the brief?How well did the group explain how the database helped them come to a decision?</p>