Ashwell Primary School Computing Curriculum Data Handling Progression - Knowledge & Skills Organiser		
Year 1 – Da	ta Handling	
Core Knowledge / skills to be acquired: (Unit 1.2 – Grouping & Sorting)	Key Vocabulary:	
 To sort items using a range of criteria. To sort items on the computer using the 'Grouping' activities in Purple Mash. 	Sort - Put things together by features they have in common. Criteria - A way in which something is judged.	
Curriculum Enrichment / Cultural Capital Opportunities / key questions In what ways can we sort objects?		
Prior knowledge / skills this builds on: (EYFS Framework)	What comes next: (Unit 1.3 – Pictograms)	
 Verbally count beyond 20, recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. 	 To understand that data can be represented in picture format. To contribute to a class pictogram. To use a pictogram to record the results of an experiment. 	
Year 1 – Da	ta Handling	
Core Knowledge / skills to be acquired: (Unit 1.3 – Pictograms)	Key Vocabulary:	
 To understand that data can be represented in picture format. To contribute to a class pictogram. To use a pictogram to record the results of an experiment. 	 Pictogram - A diagram that uses pictures to represent data. Data - Facts and statistics collected together that can provide information. Collate - Collect and combine (texts, information, or data). 	
Curriculum Enrichment / Cultural Capital Opportunities / key questions In what ways can we sort objects?		
 Prior knowledge / skills this builds on: (Unit 1.2 – Grouping & Sorting) To sort items using a range of criteria. To sort items on the computer using the 'Grouping' activities in Purple Mash. 	 What comes next: (Unit 2.4 – Questioning) To learn about data handling tools that can give more information than pictograms. To use yes/no questions to separate information. To construct a binary tree to identify items. To use 2Question (a binary tree database) to answer questions. To use a database to answer more complex search questions. To use the Search tool to find information. 	

Year 2 – Data Handling		
Core Knowledge / skills to be acquired: (Unit 2.4 – Questioning)	Key Vocabulary:	
 To learn about data handling tools that can give more information than pictograms. To use yes/no questions to separate information. To construct a binary tree to identify items. To use 2Question (a binary tree database) to answer questions. To use a database to answer more complex search questions. To use the Search tool to find information. 	 Pictogram - A diagram that uses pictures to represent data. Data - Facts and statistics collected together that can provide information Collate - Collect and combine (texts, information, or data). Question - A sentence written or spoken to find information. Binary Tree - A simple way of sorting information into two categories. Avatar - An icon or figure representing a person in a video game, Internet forum or other online format. Database - A computerised system that makes it easy to search, select and store information. 	
 Curriculum Enrichment / Cultural Capital Opportunities / key questions How does a Pictogram show information? How is information organised in a binary tree? How can a database help organise information? 	5	
Prior knowledge / skills this builds on: (Unit 1.3 – Pictograms)	What comes next: (Unit 3.6 – Branching Databases)	
 To understand that data can be represented in picture format. To contribute to a class pictogram. To use a pictogram to record the results of an experiment. 	 To sort objects using just 'yes' or 'no' questions. To complete a branching database using 2Question. To create a branching database of the children's choice. 	

Year 3 – Data Handling		
 Core Knowledge / skills to be acquired: (Unit 3.6 – Branching Databases) To sort objects using just 'yes' or 'no' questions. To complete a branching database using 2Question. To create a branching database of the children's choice. 		
 Curriculum Enrichment / Cultural Capital Opportunities / key questions What is meant by data? What is a database? What is a branching da Prior knowledge / skills this builds on: (Unit 2.4 – Questioning) To learn about data handling tools that can give more information than pictograms. To use yes/no questions to separate information. To use yes/no questions to separate information. To use 2Question (a binary tree database) to answer questions. To use a database to answer more complex search questions. To use the Search tool to find information. 		
Year 3 – Data Handling (continued)		
Core Knowledge / skills to be acquired: (Unit 3.8 – Graphing)	Key Vocabulary:	
 To enter data into a graph and answer questions. To solve an investigation and present the results in graphic form. 	 Graph - A diagram showing the value of objects. Field - A part of a record. Data - Facts and statistics collected together for reference Bar chart - A graph in which the numerical amounts are shown by the height or length of lines or rectangles of equal width. Block graph - A graph where a block represents one item. Line graph - A graph where a line is used to show an amount. Pie chart - A type of graph in which a circle is divided into sections that each represent a part of the whole. Row - A horizontal line of entries in a table or graph. Column - A vertical line of entries in a table or graph. 	
Curriculum Enrichment / Cultural Capital Opportunities / key questions		
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What is a graph? What are the frame lines on the graph called? What		
 What is a graph? What are the frame lines on the graph called? What are the frame lines on the graph called? What are the frame lines on the graph called? Prior knowledge / skills this builds on: (Unit 3.6 – Branching Databases) 	What comes next: (Unit 5.4 – Databases)	
What is a graph? What are the frame lines on the graph called? What		

Year 5 – Data Handling		
Core Knowledge / skills to be acquired: (Unit 5.4 – Databases)	Key Vocabulary:	
 To learn how to search for information in a database. To contribute to a class database. To create a database around a chosen topic. 	 Binary tree (branching database) - A way to sort information by dividing the information into groups based upon questions with yes or no answers. Charts - Representing information in a pictorial form. Collaborative - Produced by, or involving, two or more parties working together. Data - Facts and statistics collected together for information. Database - A set of data that can be held in a computer in a format that can be searched and sorted for information. Find - Search for information in a database. Record - A collection of data about one item entered into a database. Sort, Group and Arrange - Different ways to sort information in a database. Statistics and reports - To produce information about data in a database. Table - Sorting information into rows and columns. 	
Curriculum Enrichment / Cultural Capital Opportunities / key ques What is a database? Why is the collaborative feature important? In what ways can I sort information in a database?		
Prior knowledge / skills this builds on: (Unit 3.8 – Graphing)	What comes next: (Unit 6.7 – Quizzing)	
 To enter data into a graph and answer questions. To solve an investigation and present the results in graphic form. 	 To create a picture-based quiz for young children. To learn how to use the question types within 2Quiz. To explore the grammar quizzes. To make a quiz that requires the player to search a database. • To make a quiz to test your teachers or parents. 	

Year 6 – Data Handling		
Core Knowledge / skills to be acquired: (Unit 6.7 – Quizzing)	Key Vocabulary:	
 To create a picture-based quiz for young children. To learn how to use the question types within 2Quiz. To explore the grammar quizzes. To make a quiz that requires the player to search a database. • To make a quiz to test your teachers or parents. 	 Audience - the people giving attention to something. Collaboration - the action of working with someone to produce something. Concept map - a tool for organising and representing knowledge. They form a web of ideas which are all interconnected. Database - a structured set of data held in a computer, especially one that is accessible in various ways. Quiz - a test of knowledge, especially as a competition between individuals or teams as a form of entertainment. 	
Curriculum Enrichment / Cultural Capital Opportunities / key questions		
 What factors do you need to consider when creating a quiz? Name three question types in 2Quiz. Apart from the questions, what else does a quiz need to contain? 		
 Prior knowledge / skills this builds on: (Unit 5.4 – Databases) To learn how to search for information in a database. To contribute to a class database. To create a database around a chosen topic. 		