







Subject: Computing	Year group: 5 Term: Summer 1	Title: Data Handling
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What should I know?	Facts I will learn ...	Key questions ...
<ul style="list-style-type: none"> • That there are different types of data • The need to structure information properly in a database • To recognise similarities and differences between ICT and paper-based systems • The advantages of using IT to sort, interrogate and classify information • That online actions can impact on other people. • A range of ways to report concerns about contact and content • The difference between rows and columns and what a cell is. • That data needs to be inputted carefully into a spreadsheet • 	<ul style="list-style-type: none"> • The need for accuracy when designing, entering and interrogating data and how this will affect the quality of information gained • The consequences of using inaccurate data and relate to the outside world, e.g. police, doctors, banks, school • Which searches and graph types are relevant to a specific problem and types of information  • That there are different types of data, e.g. numeric, alphabetic, date, alphanumeric, currency • The need for data protection and some of the rights of individuals over stored data and how it affects use and storage of data in the real world • To present data and use the most appropriate method to organise and analyse data • To construct graphs and charts based on specific data 	<ul style="list-style-type: none"> • What does it mean to use one criterion? • How can we check the reliability of data? • What are the consequences of using inaccurate data? • What is data protection? • What are the different types of data? • Which type of graph is the most appropriate to display my data? • What is a data capture? • Have we use the most appropriate chart for the data we are trying to display? 

Key Skills...	Experiences that school will provide:	Key vocab Definition														
<ul style="list-style-type: none"> To design questions and perform complex searches using key words, to search a large pre-prepared database looking for relationships and patterns To check the reliability of the data; identify and correct inaccuracies To solve complex enquiries involving selecting, processing and presenting data; drawing conclusions To design a data capture form To search data according to more than one criterion To compare different charts and graphs To select and use the most appropriate method to organise, present, analyse and interpret data 	<ul style="list-style-type: none"> Collecting and comparing data about the rainforest 	<table border="1"> <tr> <td data-bbox="1435 263 1677 483">Data Capture</td> <td data-bbox="1677 263 2007 483">The action or process of gathering data, especially from an automatic device, control system, or sensor.</td> </tr> <tr> <td data-bbox="1435 483 1677 630">Analyse</td> <td data-bbox="1677 483 2007 630">Analyse means to study or examine something carefully in a methodical way.</td> </tr> <tr> <td data-bbox="1435 630 1677 738">Criterion</td> <td data-bbox="1677 630 2007 738">Criterion is the standard by which something is judged or assessed.</td> </tr> <tr> <td data-bbox="1435 738 1677 885">Data</td> <td data-bbox="1677 738 2007 885">Data is a collection of information gathered by observation, questioning or measurement.</td> </tr> <tr> <td data-bbox="1435 885 1677 959">Graph</td> <td data-bbox="1677 885 2007 959">A diagram displaying data</td> </tr> <tr> <td data-bbox="1435 959 1677 1032">Form</td> <td data-bbox="1677 959 2007 1032">A user interface to collect data from a user</td> </tr> <tr> <td data-bbox="1435 1032 1677 1249">Spreadsheet</td> <td data-bbox="1677 1032 2007 1249">A computer application that stores and manipulates data in a tabular format, organised in rows and columns</td> </tr> </table>	Data Capture	The action or process of gathering data, especially from an automatic device, control system, or sensor.	Analyse	Analyse means to study or examine something carefully in a methodical way.	Criterion	Criterion is the standard by which something is judged or assessed.	Data	Data is a collection of information gathered by observation, questioning or measurement.	Graph	A diagram displaying data	Form	A user interface to collect data from a user	Spreadsheet	A computer application that stores and manipulates data in a tabular format, organised in rows and columns
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<p style="text-align: center;">Web links</p> <p>https://wwf.panda.org/knowledge_hub/where_we_work/amazon/amazon_threats/climate_change_amazon/</p> <p>https://www.topmarks.co.uk/maths-games/7-11-years/data-handling</p>	<p style="text-align: center;">Experiences that could be provided at home...</p> <ul style="list-style-type: none"> Collecting data to answer a question Presenting data using graphs and charts Exploring how known data about the rainforest has been presented 															