

# Data Handling School Progression Table

Dated: Spring 2022



<u>Year Group</u>	<u>NC Objectives</u>	<u>Skills/Knowledge</u>	<u>Apps and Links</u>
EYFS	Children recognize that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes. (Old Framework)	<ul style="list-style-type: none"> <li>• Know how to identify a chart.</li> <li>• Know how to sort physical objects, take a picture and discuss what they have done.</li> <li>• Know how to present simple data on a digital device.</li> <li>• Use a simple pictogram or set of photos to count and organize information.</li> </ul>	<p><a href="#">J2e Data</a> is a useful site for exploring some aspects of Data Handling in EYFS and KS1. This is a site which usually requires a school subscription which we don't have. As such the use of the material is limited and can't be saved.</p> <p>ABCYA.Com has some nice little games and activities for data sorting: <a href="#">Fuzz Bugs</a>, <a href="#">Strolling with my Gnomies</a>.</p> <p><a href="#">Top Marks Data</a> handling Games</p>
1	Co2/1.4 Use technology purposefully to create, organize, store, manipulate and	<ul style="list-style-type: none"> <li>• Look at how data is represented digitally.</li> <li>• Contribute to making a pictogram.</li> <li>• Know how to sort images or text into two or more categories on a digital device.</li> <li>• Know how to collect data on a topic.</li> <li>• Know how to create a tally chart and pictogram digitally.</li> <li>• Know how to record themselves explaining what they have done and what it shows.</li> </ul>	<p><a href="#">J2e Data</a> is a useful site for exploring some aspects of Data Handling in EYFS and KS1. This is a site which usually requires a school subscription which we don't have. As such the use of the material is limited and can't be saved.</p>

2	retrieve digital content.	<ul style="list-style-type: none"> <li>• Know how to sort digital objects into a range of charts such as Venn diagrams, carroll diagrams and bar charts using different apps and software.</li> <li>• Ask questions on sets of data.</li> <li>• Consider how they will collect information (data).</li> <li>• Know how to orally record themselves explaining what the data shows.</li> <li>• Know how to create a branching database (decision trees) using questions (physically).</li> <li>• Collect data and use it to generate graphs and charts to find a simple answer.</li> <li>• Save and retrieve data sets to show to others.</li> </ul>	<p><a href="#">Teach Computing</a> has a Year 1 unit around Grouping Data and a Year 2 unit on <a href="#">Pictograms</a> which may have some useful lesson ideas and information which can be drawn into our own planning.</p> <p><a href="#">iLearn 2 Primary Computing</a> also has a unit on Data Handling. This is a unit designed for Year 2 and is the only free unit available without a school subscription.</p> <p><a href="#">Introducing Data Handling KS1</a></p> <p><a href="#">Top Marks Data</a> handling Games</p>
3	Co2/1.6 Select, use and combine a variety of software (including internet services) on a	<ul style="list-style-type: none"> <li>• Find out information from a pre-prepared database, and use it to answer and ask straight forward questions.</li> <li>• Contribute towards a database.</li> <li>• Construct and use a branching database (physically and on screen).</li> <li>• Record data in a variety of ways and present it for others.</li> <li>• Know how to start to input data into a spreadsheet.</li> <li>• Understand and use the terminology: table, column, row, cell, spreadsheet, graph.</li> </ul>	<p><a href="#">Teach Computing</a> has some excellent lesson ideas which could be drawn from on Branching databases. This is a Year 3 Unit.</p> <p><a href="#">BBC Cracking Computing – Working With Data</a></p>

	range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analyzing, evaluating and presenting data and information.		
4		<ul style="list-style-type: none"> <li>• Plan and create a database to answer questions.</li> <li>• Identify different types of data.</li> <li>• Ask questions carrying out simple searches on a database.</li> <li>• Present data in an appropriate format.</li> <li>• Know how to create an online multiple choice questionnaire (Use Google Forms) and use the data to answer questions and present findings.</li> <li>• Know how to input data into a spreadsheet and export the data in a variety of ways: charts, bar charts, graphs and pie charts.</li> <li>• Know how to format the layout and presentation of cells.</li> <li>• Understand and use the terminology: formatting, questionnaire, active cell, autofit, multiple choice, checkbox.</li> </ul>	<a href="#">Top Marks Data</a> handling Games
5		<ul style="list-style-type: none"> <li>• Know how to create and publish an online questionnaire and analyse the results (Google Forms).</li> <li>• Know how to spot poor quality data or anomalies within a data set.</li> <li>• Know how to use simple formulae to solve calculations including =SUM and other statistical functions.</li> <li>• Know that changing inputs changes the output.</li> <li>• Know how to edit and format different cells in a spreadsheet (eg. Swap between money, percentages, datas etc).</li> <li>• Understand and use the terminology: formula bar, autosum, auto fill, value, input, output.</li> </ul>	<a href="#">Teach Computing</a> has a series of lessons on Spreadsheets which can be used to draw information from if needed. This is a Year 6 unit. Further information on data modelling using Spreadsheets can be found in one of their <a href="#">year 7</a> units and might prove useful for staff knowledge of further progression.
6	<ul style="list-style-type: none"> <li>• Know and use the whole data process: generate, process, interpret, store and present information.</li> <li>• Know how to write spreadsheet formula to solve more challenging maths problems (+, -, X and /).</li> <li>• Interrogate a database to provide answers to questions.</li> </ul>	Use Microsoft Excel and develop their understanding to include Google Sheets.	

		<ul style="list-style-type: none"><li>• Present findings using more complex data sets which make use of full formatting tools to manipulate the aesthetics of the data.</li><li>• Know how to create and publish their own online quiz or more complex questionnaire (Google Forms).</li><li>• Understand the advantages of spreadsheets over manual methods.</li><li>• Understand and use the terminology: range, =, fill, conditional formatting.</li></ul>	
--	--	---	--

### **How to Guides and Help Videos**

Technology For Teachers and Students is a really useful YouTube resource for those that need to upskill themselves - [https://www.youtube.com/watch?v=lxq\\_46nY43g](https://www.youtube.com/watch?v=lxq_46nY43g) In particular, for this progression the following videos could be beneficial although there are numerous videos on how to use and make the best of Excel.

The beginner's guide to Excel - <https://www.youtube.com/watch?v=rwbho0CgEAE>

Intermediate Excel Skills - [https://www.youtube.com/watch?v=lxq\\_46nY43g](https://www.youtube.com/watch?v=lxq_46nY43g)