

### Computing Skills and Knowledge Progression (March 2021)

	<u>Handling Data</u>	<u>Multimedia</u>	<u>Programming</u>	<u>Technology in our Lives</u>	<u>On-Line Safety</u>
Year 3	<ul style="list-style-type: none"> <li>• Collect data to answer a question.</li> <li>• Talk about the different ways data can be organised.</li> <li>• Use a data logger to monitor changes.</li> </ul>	<ul style="list-style-type: none"> <li>• Combine a mixture of text, graphics and sound</li> <li>• use appropriate Keyboard commands to amend text, evaluate work and improve its effectiveness.</li> <li>• Create different effects with different technology tools.</li> </ul>	<ul style="list-style-type: none"> <li>• Break a problem up into smaller parts.</li> <li>• Put programming commands into a sequence to achieve a specific outcome.</li> <li>• Detect a problem in a program.</li> <li>• Use repeat commands.</li> </ul>	<ul style="list-style-type: none"> <li>• Describe the World Wide Web as the part of the Internet that contains websites.</li> <li>• Use search tools to find and use appropriate websites.</li> <li>• Save and retrieve work on the Internet, the school network or my own device.</li> <li>• Describe ways to communicate with others online.</li> </ul>	<ul style="list-style-type: none"> <li>• People online;</li> <li>• personal information;</li> <li>• passwords;</li> <li>• fake profiles;</li> <li>• selfie safe;</li> <li>• sharing safely;</li> <li>• online bullying;</li> <li>• online gaming;</li> <li>• downloading</li> </ul>
Year 4	<ul style="list-style-type: none"> <li>• Organise data in different ways.</li> <li>• Collect data and identify where it could be inaccurate.</li> <li>• Use a datalogger to record and share readings.</li> </ul>	<ul style="list-style-type: none"> <li>• Change the appearance of text to increase its effectiveness.</li> <li>• Create, modify and present documents for a particular purpose.</li> <li>• Use an appropriate tool to share my work.</li> </ul>	<ul style="list-style-type: none"> <li>• To keep testing a program while putting it together.</li> <li>• Recognise an error in a program and debug it.</li> <li>• use an efficient procedure to simplify a program.</li> <li>• Use logical thinking to solve a</li> </ul>	<ul style="list-style-type: none"> <li>• Question the reliability of information on the World Wide Web.</li> <li>• Know whether a resource is on the Internet, the school network or another device.</li> <li>• Identify key words to use when</li> </ul>	<ul style="list-style-type: none"> <li>• Friend of a friend;</li> <li>• personal privacy;</li> <li>• staying private;</li> <li>• posting safely;</li> <li>• location sharing;</li> <li>• photo tagging;</li> <li>• texting;</li> <li>• chat rooms;</li> <li>• meeting up;</li> <li>• phishing</li> </ul>

	<ul style="list-style-type: none"> <li>Choose the best way to present data to my friends</li> </ul>	<ul style="list-style-type: none"> <li>Give constructive feedback to help others improve their work</li> </ul>	<p>problem by breaking it up into smaller parts.</p>	<p>searching safely on the World Wide Web</p> <ul style="list-style-type: none"> <li>Create a hyperlink to a resource on the World Wide Web</li> </ul>	
Year 5	<ul style="list-style-type: none"> <li>Use a spreadsheet to collect and record data.</li> <li>present data in an appropriate way.</li> <li>Talk about mistakes in data and suggest how it could be checked.</li> <li>Use a datalogger to collect and record data.</li> </ul>	<ul style="list-style-type: none"> <li>Select an appropriate online or offline tool to create and share ideas.</li> <li>Use text, photo, sound and video editing tools to refine my work.</li> <li>use appropriate Keyboard commands to amend text on a device.</li> <li>Evaluate my work and improve its effectiveness.</li> </ul>	<ul style="list-style-type: none"> <li>Use 'if' and 'then' commands to select an action.</li> <li>Use logical reasoning to identify and correct mistakes in a program.</li> <li>Change an input to a program to achieve a different output.</li> <li>Use repeat commands to improve a program.</li> </ul>	<ul style="list-style-type: none"> <li>Use different online communication tools for different purposes.</li> <li>Know which resources on the Internet. Download and use.</li> <li>search a database.</li> <li>Describe different parts of the Internet.</li> </ul>	<ul style="list-style-type: none"> <li>Friend of a friend;</li> <li>personal privacy;</li> <li>staying private;</li> <li>posting safely;</li> <li>location sharing;</li> <li>photo tagging;</li> <li>texting;</li> <li>chat rooms;</li> <li>meeting up;</li> <li>phishing</li> </ul>
Year 6	<ul style="list-style-type: none"> <li>Use a database to find information.</li> <li>Use data to answer questions.</li> <li>Present data in different ways – bar chart, line graph etc.</li> </ul>	<ul style="list-style-type: none"> <li>Think about my audience when planning my project.</li> <li>Combine text, graphics, sound etc. in a presentation.</li> <li>Collect information and media from a</li> </ul>	<ul style="list-style-type: none"> <li>Break a problem into smaller steps, thinking about solutions used before.</li> <li>Recognize when to use a variable to</li> </ul>	<ul style="list-style-type: none"> <li>Check the reliability of a website.</li> <li>Know about copyright and acknowledge the sources of information online.</li> </ul>	<ul style="list-style-type: none"> <li>People online;</li> <li>personal information;</li> <li>passwords;</li> <li>fake profiles;</li> <li>selfie safe;</li> <li>sharing safely;</li> </ul>

	<ul style="list-style-type: none"> <li>• Check that the data makes sense.</li> </ul>	range of sources for a game.	achieve a required output. <ul style="list-style-type: none"> <li>• Use logical reasoning to detect and correct errors.</li> <li>• Use repeat and loops.</li> </ul>	<ul style="list-style-type: none"> <li>• Select an appropriate tool to communicate and collaborate online, e.g. chat room, email etc.</li> </ul>	<ul style="list-style-type: none"> <li>• webcam wise;</li> <li>• online gaming;</li> <li>• downloading</li> </ul>
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