









<p><b>Expectations</b></p> <ul style="list-style-type: none"> <li>I can create different effects with different technology tools.</li> <li>I can combine a mixture of text, graphics and sound to share my ideas and learning.</li> <li>I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker.</li> <li>I can evaluate my work and improve its effectiveness.</li> <li>I can use an appropriate tool to share my work online.</li> </ul>	<p><b>Vocabulary to use</b></p> <table border="1"> <tr> <td data-bbox="712 268 1025 746"> <p><b>Animate/animation</b> App Backspace Clipart Copy Delete Document Edit Enter Folder Font Greenscreen Image Insert Narration Keyboard</p> </td> <td data-bbox="1025 268 1357 746"> <p><b>Open</b> Photo(graph) Print Right click Save Select Shift Slides Software Sound Space bar Text Video / Film</p> </td> </tr> <tr> <td colspan="2" data-bbox="712 746 1357 799"> <p><i>Vocabulary to develop</i></p> </td> </tr> <tr> <td colspan="2" data-bbox="712 799 1357 879"> <p><i>Layout</i> <i>Style</i></p> </td> </tr> </table>	<p><b>Animate/animation</b> App Backspace Clipart Copy Delete Document Edit Enter Folder Font Greenscreen Image Insert Narration Keyboard</p>	<p><b>Open</b> Photo(graph) Print Right click Save Select Shift Slides Software Sound Space bar Text Video / Film</p>	<p><i>Vocabulary to develop</i></p>		<p><i>Layout</i> <i>Style</i></p>		<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>Use individual fingers to input text and use SHIFT key to type characters.</li> <li>Amend text by highlighting and using SELECT/DELETE and COPY/PASTE.</li> <li>Swap between letters and symbol input on a tablet</li> <li>Add shapes and word art to documents and presentations</li> <li>Navigate to save and retrieve files</li> <li>Use images saved to camera roll within a variety of Apps.</li> <li>Use Save and Save As on laptops and PCs.</li> <li>Copy and rename files to edit on tablets</li> </ul>
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<p><i>Layout</i> <i>Style</i></p>								
<p><b>Expected prior learning</b></p> <ul style="list-style-type: none"> <li>Save and open documents and images</li> <li>Increasing confidence to use keyboard including spacebar, enter and shift</li> <li>Knowledge of online tools to share learning</li> <li>Knowledge of software and apps to make images</li> </ul>	<p><b>Cross curriculum context</b></p> <ul style="list-style-type: none"> <li>English</li> <li>Capture learning in a topic</li> <li>Choose to use technology to present historical, geographical, religious, cultural, mathematical, or other learning</li> </ul>	<p><b>Experiences</b></p> <ul style="list-style-type: none"> <li>Create eBook with text, images and hyperlinks and sound</li> <li>Manipulate an image for effect</li> <li>Create a mood with sound</li> <li>Video (<i>and greenscreen</i>)</li> <li>Edit text within slides and documents</li> <li>Create a word cloud</li> </ul>						
<p><b>Concepts and understanding</b></p> <ul style="list-style-type: none"> <li>Text, graphics, and sound can be combined to present ideas and learning</li> <li>Evaluating work can improve the effectiveness of outcomes</li> </ul>	<p><b>Develop Computational thinking</b></p> <p>Expectations: Computational thinker model <a href="http://bit.ly/compthinkingSomerset">http://bit.ly/compthinkingSomerset</a></p> <table border="0"> <tr> <td data-bbox="712 1273 1288 1457"> <p><b>Attitudes</b> Comfortable making mistakes Perseverance Imagination Collaboration</p> </td> <td data-bbox="1288 1273 1534 1457" style="text-align: center;">  </td> <td data-bbox="1534 1273 2168 1457"> <p><b>Skills</b> Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p> </td> </tr> </table>		<p><b>Attitudes</b> Comfortable making mistakes Perseverance Imagination Collaboration</p>		<p><b>Skills</b> Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p>			
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<p><b>Expectations</b></p> <ul style="list-style-type: none"> <li>• I can break an open-ended problem up into smaller parts.</li> <li>• I can put programming commands into a sequence to achieve a specific outcome.</li> <li>• I keep testing my program and can recognise when I need to debug it.</li> <li>• I can use repeat commands.</li> <li>• I can describe the algorithm I will need for a simple task.</li> <li>• I can detect a problem in an algorithm which could result in unsuccessful programming.</li> </ul>	<p><b>Vocabulary to use</b></p>		<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>• Connect peripheral devices using USB lead</li> <li>• Use Save and Save As,</li> <li>• Copy and rename files to edit</li> <li>• Use repeat commands</li> <li>• Continual testing of parts as a program is made</li> <li>• Run parts of a program without a control block</li> <li>• Add a control block when needed in a program</li> <li>• Add sound to a program</li> <li>• Add a background</li> <li>• Change costume of a sprite</li> <li>• Make and run a program for more than one sprite</li> <li>• Use decomposition to identify parts of a problem</li> <li>• Plan an algorithm for a specific outcome</li> <li>• Debug a program</li> </ul>
<p><b>Expected prior learning</b></p> <ul style="list-style-type: none"> <li>• Predict outcome of a short sequence of commands</li> <li>• Debug a short sequence</li> <li>• Use word algorithm for planning before making a short sequence to make something happen</li> </ul>	<p><b>Algorithm</b> <b>Background</b> <b>Block</b> <b>Collaboration</b> <b>Command</b> <b>Debug</b> <b>Imagine</b> <b>Make mistakes</b> <b>Movement</b> <b>Pattern</b> <b>Persevere</b> <b>Repeat</b> <b>Sequence</b></p>	<p><b>Sprite</b> <b>Stage</b> <b>Wait / Pause</b></p> <p><i>Vocabulary to develop</i></p> <p><i>Control</i> <i>Costume</i> <i>Event</i> <i>Forever</i> <i>Implement</i> <i>Input</i> <i>Output</i> <i>Rotation</i></p>	<p><b>Experiences</b></p> <ul style="list-style-type: none"> <li>• Guided exploration of Scratch blocks</li> <li>• Prediction of outcomes of short sequences</li> <li>• Use of block challenges to assess knowledge</li> <li>• Think through an algorithm for a dance, RAG, and implement as a program</li> <li>• Debug own and programs of others</li> <li>• Investigate, modify, and make an interactive story</li> <li>• Apply knowledge using other software / apps</li> <li>• <i>Apply knowledge to program a physical object</i></li> </ul>
<p><b>Concepts and understanding</b></p> <ul style="list-style-type: none"> <li>• Use of 'Repeat' will make a program more efficient</li> <li>• An algorithm can be implemented as a program</li> <li>• A problem in an algorithm can lead to unsuccessful programming</li> </ul>	<p><b>Develop Computational thinking</b></p> <p><b>Attitudes</b> Comfortable making mistakes Perseverance Imagination Collaboration</p>		<p>Expectations: Computational thinker model <a href="http://bit.ly/comptinkingSomerset">http://bit.ly/comptinkingSomerset</a></p> <p><b>Skills</b> Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p> 

# Year 3 Technology in our Lives Knowledge Map

<p><b>Expectations</b></p> <ul style="list-style-type: none"> <li>I can save and retrieve work on the Internet, the school network, or my own device.</li> <li>I can talk about the parts of a computer.</li> <li>I can tell you ways to communicate with others online.</li> <li>I can describe the World Wide Web as the part of the Internet that contains websites.</li> <li>I can use search tools to find and use an appropriate website.</li> <li>I think about whether I can use images that I find online in my own work.</li> </ul>	<p><b>Vocabulary to use</b></p> <p><b>Communicate</b> <b>Computing devices</b> <b>email</b> <b>Internet</b> <b>QR Code</b> <b>Search engine</b> <b>Search result</b> <b>World Wide Web</b></p>	<p><b>Vocabulary to develop</b></p> <p><i>Copyright</i> <i>Filter</i> <i>Reliability</i> <i>Webpage</i> <i>Website</i></p>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>Navigate public drive to save and retrieve files</li> <li>Charge and store devices appropriately</li> <li>Use an appropriate search engine eg Swiggle</li> <li>Ask relevant questions and identify key words</li> <li>Use + and – and “ to filter results of a search</li> <li>Evaluate information online</li> <li>Talk about reliability of information</li> <li>Identify images that can be used in my work</li> <li><i>Scan a QR code</i></li> <li><i>Create a QR code</i></li> <li>Use an appropriate tool to communicate online</li> <li>Explain understanding of Internet and World Wide Web</li> </ul>
<p><b>Expected prior learning</b></p> <ul style="list-style-type: none"> <li>Supported to use appropriate search engine eg Swiggle</li> <li>Follow links/QR codes to websites</li> <li>Today’s technology helps us in different ways, including our learning</li> <li>Consider reliability of an image or simple text</li> <li>Consider similarities and differences between online and physical world</li> </ul>	<p><b>Cross curriculum context</b></p> <ul style="list-style-type: none"> <li>English: ask relevant questions, explain understanding of information, develop and order ideas, use spoken language, identify main ideas, write for different purposes</li> <li>Explore information for a topic</li> <li>Investigate information for historical, geographical, religious, cultural, mathematical or other learning</li> </ul>	<p><b>Experiences</b></p> <ul style="list-style-type: none"> <li>Find information on local computer</li> <li>Explanation of Internet and World Wide Web</li> <li>Identify an appropriate search engine</li> <li>Use an appropriate search engine to find information relevant to current topic</li> <li>Filter searches to efficiently find information</li> <li><i>Create a QR code</i></li> <li><i>Communicate safely with others online</i></li> <li><i>Investigate reliability of information</i></li> </ul>	
<p><b>Concepts and understanding</b></p> <ul style="list-style-type: none"> <li>World wide web is one part of the Internet that includes websites</li> <li>Not all information online is reliable (or in books)</li> <li>Different search engines provide different results</li> </ul>	<p><b>Develop Computational thinking</b></p> <p>Expectations: Computational thinker model <a href="http://bit.ly/comptinkingSomerset">http://bit.ly/comptinkingSomerset</a></p> <p><b>Attitudes</b> Comfortable making mistakes Perseverance Imagination Collaboration</p>  <p><b>Skills</b> Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p>		

# Year 3 Data Handling Knowledge Map

<p><b>Expectations</b></p> <ul style="list-style-type: none"> <li>• I can talk about the different ways data can be organised.</li> <li>• I can search a ready-made database to answer questions.</li> <li>• I can collect data help me answer a question.</li> <li>• I can add to a database.</li> <li>• I can make a branching database.</li> <li>• I can use a data logger to monitor changes and can talk about the information collected.</li> </ul>	<p><b>Vocabulary to use</b></p> <table border="1"> <tr> <td data-bbox="707 268 1028 691"> <p><b>Branching database</b> <b>Chart</b> <b>Collect</b> <b>Database</b> <b>Data logger</b> <b>Decision tree</b> <b>Graph</b> <b>Investigate</b> <b>Questions</b> <b>Record</b></p> </td> <td data-bbox="1028 268 1368 691"> <p><b>Results</b> <b>Tally</b> <b>Sort</b> <b>Venn diagram</b></p> <p><i>Vocabulary to develop</i></p> <p><i>Data</i> <i>Information</i> <i>Interpret</i></p> </td> </tr> </table>		<p><b>Branching database</b> <b>Chart</b> <b>Collect</b> <b>Database</b> <b>Data logger</b> <b>Decision tree</b> <b>Graph</b> <b>Investigate</b> <b>Questions</b> <b>Record</b></p>	<p><b>Results</b> <b>Tally</b> <b>Sort</b> <b>Venn diagram</b></p> <p><i>Vocabulary to develop</i></p> <p><i>Data</i> <i>Information</i> <i>Interpret</i></p>	
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<p><b>Expected prior learning</b></p> <ul style="list-style-type: none"> <li>• Use a decision tree / branching database</li> <li>• Talk about data collected by other people</li> <li>• See data / information presented in different ways</li> <li>• Create a block graph</li> <li>• Generate questions for an investigation</li> </ul>	<p><b>Cross curriculum context</b></p> <ul style="list-style-type: none"> <li>• English: ask relevant questions, explain understanding of information, develop and order ideas, use spoken language to share learning</li> <li>• Maths: Use appropriate software and apps to present and interpret data. Interpret data collected with data loggers..</li> <li>• Investigate and represent information for scientific, geographical, mathematical or other learning</li> </ul>				
<p><b>Concepts and understanding</b></p> <ul style="list-style-type: none"> <li>• Data-loggers, or data logging apps, sense and record changes</li> <li>• Data can be represented in different ways</li> <li>• Different investigations may need data collected in different ways</li> </ul>	<p><b>Develop Computational thinking</b></p> <p>Expectations: Computational thinker model <a href="http://bit.ly/comphinkingSomerset">http://bit.ly/comphinkingSomerset</a></p> <table border="1"> <tr> <td data-bbox="707 1265 1288 1455"> <p><b>Attitudes</b></p> <p>Comfortable making mistakes Perseverance Imagination Collaboration</p> </td> <td data-bbox="1288 1265 1534 1455">  </td> <td data-bbox="1534 1265 2163 1455"> <p><b>Skills</b></p> <p>Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p> </td> </tr> </table>		<p><b>Attitudes</b></p> <p>Comfortable making mistakes Perseverance Imagination Collaboration</p>		<p><b>Skills</b></p> <p>Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p>
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