










<p>Expectations</p> <ul style="list-style-type: none"> • I can talk about audience, atmosphere and structure when planning a particular outcome. • I can confidently identify the potential of unfamiliar technology to increase my creativity. • I can combine a range of media, recognising the contribution of each to achieve a particular outcome. • I can tell you why I select a particular online tool for a specific purpose. • I can be digitally discerning when evaluating the effectiveness of my own work and the work of others. 	<p>Vocabulary to use</p> <table border="1"> <tr> <td> <p>Animate Animation App Audience Bullet points Clipart Comic strip Document Edit Folder Font Greenscreen Insert Heading / sub-heading Hyperlink Layout</p> </td> <td> <p>Narration Persuasive Production Right click Select Screen shot Shift Slides Software Sound effect Sound recording Storyboard Style Tab Template Theme</p> </td> </tr> </table>		<p>Animate Animation App Audience Bullet points Clipart Comic strip Document Edit Folder Font Greenscreen Insert Heading / sub-heading Hyperlink Layout</p>	<p>Narration Persuasive Production Right click Select Screen shot Shift Slides Software Sound effect Sound recording Storyboard Style Tab Template Theme</p>	<p>Skills</p> <ul style="list-style-type: none"> • Effectively use right click menu within documents and presentations • Recognise file types for text, image, and video files • Save as a particular file type • Select menu options within a variety of apps • Create tables • Use find and replace when editing documents • Store documents and videos online where they can be accessed by themselves and shared with others • Use knowledge of software and apps to combine technologies to support my learning
<p>Animate Animation App Audience Bullet points Clipart Comic strip Document Edit Folder Font Greenscreen Insert Heading / sub-heading Hyperlink Layout</p>	<p>Narration Persuasive Production Right click Select Screen shot Shift Slides Software Sound effect Sound recording Storyboard Style Tab Template Theme</p>				
<p>Expected prior learning</p> <ul style="list-style-type: none"> • Use editing tools to refine work • Use bullet points and text boxes • Select and combine use of appropriate tools to create effect on audience • Work collaboratively on documents and presentations 	<p>Cross curriculum context</p> <ul style="list-style-type: none"> • English • Capture learning in a topic • Choose to use technology to present historical, geographical, religious, cultural, mathematical, or other learning 		<p>Experiences</p> <ul style="list-style-type: none"> • Create promotional video • Use hyperlinks within a non-linear presentation • <i>Build a location within Minecraft and capture to use within own creative writing</i> 		
<p>Concepts and understanding</p> <ul style="list-style-type: none"> • Plan for atmosphere and outcomes • Identify technology to increase potential for creativity • Select online tools for different purposes • Different media have different file types 	<p>Develop Computational thinking</p> <p>Expectations: Computational thinker model http://bit.ly/comptinkingSomerset</p> <table border="1"> <tr> <td> <p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p> </td> <td>  </td> <td> <p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p> </td> </tr> </table>		<p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p>		<p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p>
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Year 6 Programming Knowledge Map

<p>Expectations</p> <ul style="list-style-type: none"> I can deconstruct a problem into smaller steps, recognising similarities to solutions used before. I can explain and program each of the steps in my algorithm. I can evaluate the effectiveness and efficiency of my algorithm while I continually test the programming of that algorithm. I can recognise when I need to use a variable to achieve a required output. I can use a variable and operators to stop a program. I can use different inputs (including sensors) to control a device or onscreen action and predict what will happen. I can use logical reasoning to detect and correct errors in a algorithms and programs. 	<p>Vocabulary to use</p> <table border="1"> <tr> <td> <p>Algorithm Block Collaboration Command Computational thinking Control Debug Decomposition Design Effect Event Forever Imagine Implement Input</p> </td> <td> <p>Make mistakes Pattern Output Persevere Repeat Rotation Selection (If Then) Sequence Sprite Variable X position / Y position</p> <p><i>Vocabulary to develop</i></p> <p><i>Abstraction</i> <i>Broadcast</i></p> </td> </tr> </table>	<p>Algorithm Block Collaboration Command Computational thinking Control Debug Decomposition Design Effect Event Forever Imagine Implement Input</p>	<p>Make mistakes Pattern Output Persevere Repeat Rotation Selection (If Then) Sequence Sprite Variable X position / Y position</p> <p><i>Vocabulary to develop</i></p> <p><i>Abstraction</i> <i>Broadcast</i></p>	<p>Skills</p> <ul style="list-style-type: none"> Securely access a variety of devices and online resources Store projects online where they can be accessed by themselves and shared with others Work collaboratively to learn and create Investigating an individual block to improve understanding Use abstraction to identify ideas to incorporate in design Make a block - define a sequence as a procedure to use within a program Use operator blocks for calculations, including pick random Self and peer review Review, refine and improve projects 	
<p>Algorithm Block Collaboration Command Computational thinking Control Debug Decomposition Design Effect Event Forever Imagine Implement Input</p>	<p>Make mistakes Pattern Output Persevere Repeat Rotation Selection (If Then) Sequence Sprite Variable X position / Y position</p> <p><i>Vocabulary to develop</i></p> <p><i>Abstraction</i> <i>Broadcast</i></p>				
<p>Expected prior learning</p> <ul style="list-style-type: none"> Make and use variables Use selection, forever and operator blocks Design process including thinking through algorithm, identifying sprites and background Create and import sprites and backgrounds Creativity being a combination of imagination and logical thinking Identifying inputs and outputs 	<p>Cross curriculum context</p> <ul style="list-style-type: none"> English: participation in collaborative conversations, give well-structured descriptions; use pattern recognition and decomposition within spelling, word reading and structure of writing; algorithms when planning writing; abstraction to identify main ideas Maths: understanding of number, properties of shapes, problem solving 	<p>Experiences</p> <ul style="list-style-type: none"> Use of block challenges to assess knowledge Predict, Run, Investigate, and modify a simple and a more complex Scratch Times Table quiz Use a variable as a score <i>Make times table quiz more efficient</i> Design process to make own quiz RAG algorithm and implement as a program Apply knowledge using other software / apps <i>Apply knowledge to program a physical object</i> 			
<p>Concepts and understanding</p> <ul style="list-style-type: none"> Abstraction to increase manageability and effectiveness of design process Errors can occur in algorithm as well as in program Variables can be an input and can be used to control output 	<p>Develop Computational thinking Expectations: Computational thinker model http://bit.ly/compthinkingSomerset</p> <table border="0"> <tr> <td> <p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p> </td> <td style="text-align: center;">  </td> <td> <p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p> </td> </tr> </table>		<p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p>		<p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p>
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Year 6 Technology in our Lives Knowledge Map

<p>Expectations</p> <ul style="list-style-type: none"> I can tell you the Internet services I need to use for different purposes. I can describe how information is transported on the Internet. I can select an appropriate tool to communicate and collaborate online. I can talk about the way search results are selected and ranked. I can check the reliability of a website. I can tell you about copyright and acknowledge the sources of information that I find online. I know that websites can use my data to make money and target their advertising 	<p>Vocabulary to use</p> <table border="1"> <tr> <td> <p>Blog Citation Client Copyright Digital content Digital advertising Hyperlink Internet Service Provider QR Code Reliability Search engine Search result Search query</p> </td> <td> <p>Vlog Webpage Website</p> </td> </tr> <tr> <td colspan="2"> <p><i>Vocabulary to develop</i></p> </td> </tr> <tr> <td colspan="2"> <p><i>Domain</i> <i>Filter</i> <i>LAN Local Area Network</i> <i>Packets</i> <i>Protocol</i> <i>Router</i> <i>WAN Wider Area Network</i></p> </td> </tr> </table>	<p>Blog Citation Client Copyright Digital content Digital advertising Hyperlink Internet Service Provider QR Code Reliability Search engine Search result Search query</p>	<p>Vlog Webpage Website</p>	<p><i>Vocabulary to develop</i></p>		<p><i>Domain</i> <i>Filter</i> <i>LAN Local Area Network</i> <i>Packets</i> <i>Protocol</i> <i>Router</i> <i>WAN Wider Area Network</i></p>		<p>Skills</p> <ul style="list-style-type: none"> Securely access a variety of devices and online resources Store documents and videos online where they can be accessed by themselves and shared with others Use knowledge of software and apps to combine technologies to support my learning Explanation of learning Create a graphic organiser Use effective search skills – filters, knowledge of appropriate search engines and websites Use a collaborative tool to collect and share information with peers
<p>Blog Citation Client Copyright Digital content Digital advertising Hyperlink Internet Service Provider QR Code Reliability Search engine Search result Search query</p>	<p>Vlog Webpage Website</p>							
<p><i>Vocabulary to develop</i></p>								
<p><i>Domain</i> <i>Filter</i> <i>LAN Local Area Network</i> <i>Packets</i> <i>Protocol</i> <i>Router</i> <i>WAN Wider Area Network</i></p>								
<p>Expected prior learning</p> <ul style="list-style-type: none"> World Wide Web is one part of Internet Evaluate information online for reliability Recognise persuasion in digital adverts Efficient web searching Search results are selected and ranked by private companies Cite sources of images and text <i>Participate in Scratch online community</i> 	<p>Cross curriculum context</p> <ul style="list-style-type: none"> English: ask relevant questions, explain understanding of information, use spoken language, identify main ideas, write for different purposes, distinguish between fact and opinion Investigate information for a topic Investigate information for historical, geographical, religious, cultural, mathematical or other learning 	<p>Experiences</p> <ul style="list-style-type: none"> Make a list of internet services and their use Explanation of how information is stored and moves on the internet Create a graphic organiser to represent a webpage Investigate search engines Plan an effective strategy for research Explanation of citing sources of information Use online collaborative tools such as Padlet 						
<p>Concepts and understanding</p> <ul style="list-style-type: none"> Internet services are used for different purposes Information is moved in packets on the internet Responsibility is part of using online resources for own purposes 	<p>Develop Computational thinking</p> <p>Expectations: Computational thinker model http://bit.ly/comptinkingSomerset</p> <table border="0"> <tr> <td> <p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p> </td> <td style="text-align: center;">  </td> <td> <p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p> </td> </tr> </table>		<p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p>		<p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p>			
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Year 6 Data Handling Knowledge Map

<p>Expectations</p> <ul style="list-style-type: none"> I can plan the process needed to investigate the world around me. I can select the most effective tool to collect data for my investigation. I can check the data I collect for accuracy and plausibility. I can interpret the data I collect. I can present the data I collect in an appropriate way. I use the skills I have developed to interrogate a database. 	<p>Vocabulary to use</p> <table border="1"> <tr> <td> <p>Analyse Average Chart Collect Complex questions Data Database Data logger Decision tree Field Graph Hypothesis Information Interrogate Interpret</p> </td> <td> <p>Investigate Knowledge Model Plausible Predict Process Questions Record Results Tally Sort Venn diagram</p> </td> </tr> <tr> <td></td> <td> <p><i>Vocabulary to develop</i></p> </td> </tr> <tr> <td></td> <td> <p><i>Anomaly Formulae</i></p> </td> </tr> </table>	<p>Analyse Average Chart Collect Complex questions Data Database Data logger Decision tree Field Graph Hypothesis Information Interrogate Interpret</p>	<p>Investigate Knowledge Model Plausible Predict Process Questions Record Results Tally Sort Venn diagram</p>		<p><i>Vocabulary to develop</i></p>		<p><i>Anomaly Formulae</i></p>	<p>Skills</p> <ul style="list-style-type: none"> Store documents online where they can be accessed by themselves and shared with others Use knowledge of software and apps to combine technologies to support my learning Interrogate an online database Interpret data Plan an investigation of data collected by others Plan an investigation that will require data logging Identify outcomes to share with others Present outcomes responsibly
<p>Analyse Average Chart Collect Complex questions Data Database Data logger Decision tree Field Graph Hypothesis Information Interrogate Interpret</p>	<p>Investigate Knowledge Model Plausible Predict Process Questions Record Results Tally Sort Venn diagram</p>							
	<p><i>Vocabulary to develop</i></p>							
	<p><i>Anomaly Formulae</i></p>							
<p>Expected prior learning</p> <ul style="list-style-type: none"> Use a data logger (app or device) to sense and record discrete and continuous data Work collaboratively to plan an investigation Interrogate information collected and presented by others Add to a database and/or a spreadsheet Graph information from a database or a spreadsheet 	<p>Cross curriculum context</p> <ul style="list-style-type: none"> English: ask relevant questions, explain understanding of information, identify main ideas, write for different purposes, distinguish between fact and opinion Maths: Use appropriate software and data loggers to create and interpret line graphs. Complete and interpret tables to present and understand information. Investigate and represent information for learning across the curriculum 	<p>Experiences</p> <ul style="list-style-type: none"> Consider data and information in an online database eg Olympics Explore different online databases Use an online database to answer questions set by friends Plan an investigation based on online data Select information to present to others <i>Use data loggers and other devices for an investigation about fitness</i> Present findings of an investigation to others 						
<p>Concepts and understanding</p> <ul style="list-style-type: none"> Data becomes information when it is set in a context and becomes knowledge as it is interpreted and presented to others We have a responsibility to share accurate data and information Big Data is available to increase information and knowledge 	<p>Develop Computational thinking</p> <p>Expectations: Computational thinker model http://bit.ly/comptinkingSomerset</p> <table border="0"> <tr> <td> <p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p> </td> <td style="text-align: center;">  </td> <td> <p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p> </td> </tr> </table>		<p>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</p>		<p>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</p>			
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