






Expectations <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.	Vocabulary to use		Skills <ul style="list-style-type: none">Effectively use right click menu within documents and presentationsRecognise file types for text, image, and video filesSave as a particular file typeSelect menu options within a variety of appsCreate tablesUse find and replace when editing documentsStore documents and videos online where they can be accessed by themselves and shared with othersUse knowledge of software and apps to combine technologies to support my learning
	Animate Animation App Audience Bullet points Clipart Comic strip Document Edit Folder Font Greenscreen Insert Heading / sub-heading Hyperlink Layout	Narration Persuasive Production Right click Select Screen shot Shift Slides Software Sound effect Sound recording Storyboard Style Tab Template Theme	
Expected prior learning <ul style="list-style-type: none">Use editing tools to refine workUse bullet points and text boxesSelect and combine use of appropriate tools to create effect on audienceWork collaboratively on documents and presentations	Cross curriculum context <ul style="list-style-type: none">EnglishCapture learning in a topicChoose to use technology to present historical, geographical, religious, cultural, mathematical, or other learning		Experiences <ul style="list-style-type: none">Create promotional videoUse hyperlinks within a non-linear presentation<i>Build a location within Minecraft and capture to use within own creative writing</i>
Concepts and understanding <ul style="list-style-type: none">Plan for atmosphere and outcomesIdentify technology to increase potential for creativitySelect online tools for different purposesDifferent media have different file types	Develop Computational thinking Expectations: Computational thinker model http://bit.ly/comphinkingSomerset		
	Attitudes Comfortable making mistakes Perseverance Imagination Collaboration		Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation


Year 6 Programming Knowledge Map

Expectations <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.	<table><tr><th colspan="2">Vocabulary to use</th></tr><tr><td>Algorithm Block Collaboration Command Computational thinking Control Debug Decomposition Design Effect Event Forever Imagine Implement Input</td><td>Make mistakes Pattern Output Persevere Repeat Rotation Selection (If Then) Sequence Sprite Variable X position / Y position</td></tr><tr><td></td><td><i>Vocabulary to develop</i></td></tr><tr><td></td><td><i>Abstraction</i> <i>Broadcast</i></td></tr></table>	Vocabulary to use		Algorithm Block Collaboration Command Computational thinking Control Debug Decomposition Design Effect Event Forever Imagine Implement Input	Make mistakes Pattern Output Persevere Repeat Rotation Selection (If Then) Sequence Sprite Variable X position / Y position		<i>Vocabulary to develop</i>		<i>Abstraction</i> <i>Broadcast</i>	Skills <ul style="list-style-type: none">Securely access a variety of devices and online resourcesStore projects online where they can be accessed by themselves and shared with othersWork collaboratively to learn and createInvestigating an individual block to improve understandingUse abstraction to identify ideas to incorporate in designMake a block - define a sequence as a procedure to use within a programUse operator blocks for calculations, including pick randomSelf and peer reviewReview, refine and improve projects
Vocabulary to use										
Algorithm Block Collaboration Command Computational thinking Control Debug Decomposition Design Effect Event Forever Imagine Implement Input	Make mistakes Pattern Output Persevere Repeat Rotation Selection (If Then) Sequence Sprite Variable X position / Y position									
	<i>Vocabulary to develop</i>									
	<i>Abstraction</i> <i>Broadcast</i>									
Expected prior learning <ul style="list-style-type: none">Make and use variablesUse selection, forever and operator blocksDesign process including thinking through algorithm, identifying sprites and backgroundCreate and import sprites and backgroundsCreativity being a combination of imagination and logical thinkingIdentifying inputs and outputs	Cross curriculum context <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 ideasMaths: understanding of number, properties of shapes, problem solving	Experiences <ul style="list-style-type: none">Use of block challenges to assess knowledgePredict, Run, Investigate, and modify a simple and a more complex Scratch Times Table quizUse a variable as a score<i>Make times table quiz more efficient</i>Design process to make own quizRAG algorithm and implement as a programApply knowledge using other software / apps<i>Apply knowledge to program a physical object</i>								
Concepts and understanding <ul style="list-style-type: none">Abstraction to increase manageability and effectiveness of design processErrors can occur in algorithm as well as in programVariables can be an input and can be used to control output	Develop Computational thinking <div><div>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</div><div></div><div>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</div></div>	Expectations: Computational thinker model http://bit.ly/comphinkingSomerset								

Year 6 Technology in our Lives Knowledge Map

Expectations <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	Vocabulary to use <table><tr><td>Blog Citation Client Copyright Digital content Digital advertising Hyperlink Internet Service Provider QR Code Reliability Search engine Search result Search query</td><td>Vlog Webpage Website <i>Vocabulary to develop</i> <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></td></tr></table>		Blog Citation Client Copyright Digital content Digital advertising Hyperlink Internet Service Provider QR Code Reliability Search engine Search result Search query	Vlog Webpage Website <i>Vocabulary to develop</i> <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>	Skills <ul style="list-style-type: none">Securely access a variety of devices and online resourcesStore documents and videos online where they can be accessed by themselves and shared with othersUse knowledge of software and apps to combine technologies to support my learningExplanation of learningCreate a graphic organiserUse effective search skills – filters, knowledge of appropriate search engines and websitesUse a collaborative tool to collect and share information with peers	
Blog Citation Client Copyright Digital content Digital advertising Hyperlink Internet Service Provider QR Code Reliability Search engine Search result Search query	Vlog Webpage Website <i>Vocabulary to develop</i> <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>					
Expected prior learning <ul style="list-style-type: none">World Wide Web is one part of InternetEvaluate information online for reliabilityRecognise persuasion in digital advertsEfficient web searchingSearch results are selected and ranked by private companiesCite sources of images and text<i>Participate in Scratch online community</i>	Cross curriculum context <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 opinionInvestigate information for a topicInvestigate information for historical, geographical, religious, cultural, mathematical or other learning		Experiences <ul style="list-style-type: none">Make a list of internet services and their useExplanation of how information is stored and moves on the internetCreate a graphic organiser to represent a webpageInvestigate search enginesPlan an effective strategy for researchExplanation of citing sources of informationUse online collaborative tools such as Padlet			
Concepts and understanding <ul style="list-style-type: none">Internet services are used for different purposesInformation is moved in packets on the internetResponsibility is part of using online resources for own purposes	Develop Computational thinking <div>Expectations: Computational thinker model http://bit.ly/compthinkingSomerset</div> <table><tr><td>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</td><td></td><td>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</td></tr></table>			Attitudes Comfortable making mistakes Perseverance Imagination Collaboration		Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation
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Year 6 Data Handling Knowledge Map

Expectations <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.	Vocabulary to use <table><tr><td>Analyse Average Chart Collect Complex questions Data Database Data logger Decision tree Field Graph Hypothesis Information Interrogate Interpret</td><td>Investigate Knowledge Model Plausible Predict Process Questions Record Results Tally Sort Venn diagram</td></tr><tr><td></td><td>Vocabulary to develop</td></tr><tr><td></td><td>Anomaly Formulae</td></tr></table>	Analyse Average Chart Collect Complex questions Data Database Data logger Decision tree Field Graph Hypothesis Information Interrogate Interpret	Investigate Knowledge Model Plausible Predict Process Questions Record Results Tally Sort Venn diagram		Vocabulary to develop		Anomaly Formulae	Skills <ul style="list-style-type: none">Store documents online where they can be accessed by themselves and shared with othersUse knowledge of software and apps to combine technologies to support my learningInterrogate an online databaseInterpret dataPlan an investigation of data collected by othersPlan an investigation that will require data loggingIdentify outcomes to share with othersPresent outcomes responsibly
Analyse Average Chart Collect Complex questions Data Database Data logger Decision tree Field Graph Hypothesis Information Interrogate Interpret	Investigate Knowledge Model Plausible Predict Process Questions Record Results Tally Sort Venn diagram							
	Vocabulary to develop							
	Anomaly Formulae							
Expected prior learning <ul style="list-style-type: none">Use a data logger (app or device) to sense and record discrete and continuous dataWork collaboratively to plan an investigationInterrogate information collected and presented by othersAdd to a database and/or a spreadsheetGraph information from a database or a spreadsheet	Cross curriculum context <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 opinionMaths: 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	Experiences <ul style="list-style-type: none">Consider data and information in an online database eg OlympicsExplore different online databasesUse an online database to answer questions set by friendsPlan an investigation based on online dataSelect 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						
Concepts and understanding <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 othersWe have a responsibility to share accurate data and informationBig Data is available to increase information and knowledge	Develop Computational thinking <div>Expectations: Computational thinker model http://bit.ly/comphinkingSomerset</div> <div><div>Attitudes Comfortable making mistakes Perseverance Imagination Collaboration</div><div></div><div>Skills Pattern recognition Decomposition Algorithm design Abstraction and generalisation</div></div>							