

Year 5

	Key ideas	Link to NC Students should be taught to:	KPI Pupils can:	Curriculum Context	Useful resources
Autumn A	How the internet and the World Wide Web work; online research skills	<p>understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration</p> <p>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>	<p>explain what the world wide web and the internet are, and the difference</p> <p>outline how data is transported on the internet to different addresses</p> <p>collaborate through online systems to work on shared documents</p> <p>explain the importance of content ownership and copyright issues</p>	RHYTHM OF RIVERS - researching mighty mountains and rivers to create a project	Northwest Pacific Tree Octopus site The WayBack Machine

<p>Autumn B</p>	<p>need to collaborate on shared documents to collect and present information/data -</p>	<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <p>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>	<p>summarise and present information/data using a range of media</p> <p>collaborate through online systems to work on shared documents</p> <p>explain the importance of content ownership and copyright issues</p>	<p>RHYTHM OF RIVERS - collaborative project based on topic for term - present findings to others in a variety of ways</p>	
<p>Spring A</p>	<p>Using Scratch to control Makey Makey musical instruments (alternatively, using Lego Wedo, Flowol or other control devices/software)</p>	<p>design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>use sequence, selection and repetition in programs; work with variables and various forms of input and output</p> <p>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p>	<p>control physical systems or simulations of these through a digital device</p> <p>use various forms of input and output in programs</p> <p>use logical reasoning to debug programs containing sequence, selection, repetition and variables</p>	<p>Tomb Raiders - create a mummy style game</p>	

<p>Spring B</p>	<p>use Scratch to simulate a game</p>	<p>design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>use sequence, selection and repetition in programs; work with variables and various forms of input and output</p> <p>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p>	<p>control physical systems or simulations of these through a digital device</p> <p>use various forms of input and output in programs</p> <p>use logical reasoning to debug programs containing sequence, selection, repetition and variables</p>	<p>Tomb Raiders game developed to include point scoring</p>	
<p>Summer A</p>	<p>Creating multimodal e-books and web pages/creating an Aurasma to share area of learning with other classes</p>	<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <p>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>	<p>refine internet searches to improve relevance of materials</p> <p>can justify their selection of an appropriate digital device and application to accomplish a specific outcome</p> <p>collaborate through online systems to work on shared documents</p> <p>explain the importance of content ownership and copyright issues</p>	<p>AMERICAN DREAM - using a movie making software to create a Hollywood inspired movie</p>	

<p>Summer B</p>	<p>App creation</p>	<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <p>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>	<p>refine internet searches to improve relevance of materials</p> <p>can justify their selection of an appropriate digital device and application to accomplish a specific outcome</p> <p>collaborate through online systems to work on shared documents</p> <p>explain the importance of content ownership and copyright issues</p>	<p>AMERICAN DREAM - create a travel APP on America and all it has to offer</p>	<p>Appshed/Touch develop</p>
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