Year 6

Silverdale Primary Academy
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	Key Ideas	Link to NC Students should be taught to:	KPI Pupils can:	Curriculum Context	Useful resources						
Autumn A	Using Scratch and Kodu to make a Frogger-type game	design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	solve complex problems by decomposing into smaller parts use sequencing, selection, loops and repetition in programs that involve multiple variables debug programs containing selection, loops, repetition and variables make generalisations by comparing programs in two different visual programming languages	Child's War - create a game realted to War Topic							
Autumn B	Designing and making own games	design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	solve complex problems by decomposing into smaller parts use sequencing, selection, loops and repetition in programs that involve multiple variables debug programs containing selection, loops, repetition and variables make generalisations by comparing programs in two different visual programming languages	Child's War - continue to create game using points system							
Spring A	Project research	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 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identif a range of ways to report concerns about content and contact	explain how search results are selected and ranked be discerning when evaluating information and digital content found online explain the importance of keeping their own data and that of others safe	Extreme environments - research topic and create a project							
Spring B	Creating news reports/documentaries	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 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 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	create and share mixed media presentations online for a specific audience communicate and collaborate through online systems using a variety of tools justify their selection of content from different digital devices and applications to accomplish a specific goal	Extreme environments - using the race to the South Pole to create news articles	Do Ink Green Screen app plus green screen ; Videolicious; iMovie	Deconstructing video news reports/documentaries to identify features and techniques that are being used	Decomposing the challenge of creating a news report - collecting information, data, images through online research to reflect a particular decade; storyboarding report; scripting report; learning techniques of green screening; creating a soundtrack/backing music/jingle for the report using GarageBand; using iMovies to create trailers for a series of reports made by the class	Compare - evaluate the effectiveness of different tools/apps/techniques for news articles/documentaries	Critical evaluation of their own and each other's work - self and peer assessment - quality of overall product, contribution of each element, effectiveness of each element in conveying messages clearly, against the assessment criteria provided by teacher; providing effective feedback to peers	Editing and improving work in light of feedback	NB the context for learning can be varied but think of this as a 'real life' project, where pupils are working as part of a professional news/documentary team
Summer A	Planning a Mexican Festival - market research, spreadsheet modelling,	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 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	design a data collection project and analyse the results communicate and collaborate through online systems using a variety of tools be discerning when evaluating information and digital content found online explain the importance of keeping their own data and that of others safe	Mexico - party planning		marketing by creating QR codes and Aurasma	advertising, covers for games - Pic Collage	NB as with other Computing units, spend time on a "design cycle" approach - deconstruct existing products, design own solution to problem, create			
Summer B	Creating a record of time at the school - choose from a range of approaches such as ebook, video, animation, creating an app	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 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	create and share mixed media presentations online for a specific audience communicate and collaborate through online systems using a variety of tools justify their selection of content from different digital devices and applications to accomplish a specific goal	Using skills this year to create a timeline of their time at Silverdale to share with an audience							