

ICT Curriculum Overview

St Mary's Catholic Primary School

Year	Unit and Aim	Target Skills (I can...)	Key Vocabulary	NC 2014	Assessment	Suggested Resources
	<i>What are we learning? Why are we learning it?</i>	<i>What specific skills need to be taught and practised?</i>	<i>What specific language must children know in order to be able to be successful?</i>	<i>Which area/s of the NC 2014 will be the focus?</i>	<i>What specific skills or outcomes will be assessed as part of this unit? How?</i>	<i>What do we need to have in place in order for children to be able to be successful?</i>
Year 1	<p><u>We are celebrating</u></p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to create a digital greetings card</p> <p>Why are we learning it?</p> <p>To enable pupils to use digital tools and technology to combine text and graphics.</p>	<ul style="list-style-type: none"> • research • word • processing • graphics 	<ul style="list-style-type: none"> • text • graphics • combine • digital • image • font • mouse • select • copy • paste • highlight • safety • Internet • save • retrieve 	<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school • use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies 	<ul style="list-style-type: none"> • Have pupils developed basic keyboard skills, through inputting and formatting text? • Have pupils developed basic mouse skills? • Can pupils use the Internet to find and select images? • Have pupils developed skills in opening and saving files? • Have pupils improved their vocabulary and sentence work by using a word bank? (see key vocab list) • Have pupils developed skills in combining text and images? • Are pupils able to discuss their work and think about whether it could be improved? 	<p>Word processing / Presentation software such as:</p> <ul style="list-style-type: none"> • Microsoft PowerPoint • Microsoft Word • Clicker 6
Year 1	<p><u>We are treasure Hunters</u></p> <p>Children are learning to programme, control and use technology to move around maps</p> <p>Why are we learning it?</p> <p>To enable pupils to use digital tools and technology and be introduced to coding</p>	<ul style="list-style-type: none"> • control • following instructions 	<ul style="list-style-type: none"> • beebot • directions • instructions • directional language 	<ul style="list-style-type: none"> • understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs • recognise common uses of information technology beyond school 	<p>Can they use a map?</p> <p>Can they follow instructions?</p> <p>Can they programme a toy?</p> <p>Can they try and use fewer moves to find treasure and discuss their improvements?</p>	<p>Programmable toys such as:</p> <ul style="list-style-type: none"> • Bee-Bot, • Constructa-Bot • Roamer
Year	<u>We are storytellers</u>	Retelling stories	Record	• use technology purposefully to create,		Talking tins,MP3

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1	Children are learning to record and play back their own stories. Why are we learning it? To enable pupils to use digital tools and technology to record information	Digital Recording Sound recording	Play Select	organise, store, manipulate and retrieve digital content	Can they make different sounds? Can they record sound effects? Can they record themselves reading part of a story? Can they help make a talking book?	recorders, I Pad apps
Year 1	<u>We are collectors</u> Children are learning how to collect and graph information Why are we learning it? To enable pupils to use digital tools and technology to present information	Data handling Charts graph	Graph Axis Select	<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • use logical reasoning to predict the behaviour of simple programs • 	Can they answer questions about staying active? Can they help create a class pictogram? Can they create their own pictogram? Can they use a pictogram to show how active they are.	Create a graph, 2simple 2count
Year 1	<u>We are TV chefs</u> Children are learning to understand and use a range of technology and techniques to create a	Computational thinking	Record play	<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • use logical reasoning to predict the 	Can they watch a TV clip to find out information?	Video camera , tripods , ingredients and cooking, implement s

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	digital video recording Why are we learning it? To enable pupils to use digital tools and technology to present information as well as thinking about the order of instructions to make something- links to early programming and logical thinking.			behaviour of simple programs	Can they use a video camera? Can they help to make a TV clip? Can they talk about the class TV clips? Can they talk about the steps?	
Year 1	<u>We are painters</u> Children are learning to illustrate an eBook. Why are we learning it? To enable pupils to continue to develop their familiarity with a computer and keyboards and to develop their creative side whilst using a variety of programmes	Creativity- creating books sharing of information	icons, menus, hyperlinks	<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • 	Can they find out about eBooks? Can they use a tools to write and create their own? Can they find out what makes a eBook? Can they talk about creating their eBook?	Internet browser, I pad apps.
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Year 2	<p><u>We are detectives</u> Children are learning how to communicate clues by multimedia</p> <p>Why are we learning it?</p> <p>To enable pupils to continue to develop their familiarity with multimedia technology</p>	<p>Email , blog, text</p>	<ul style="list-style-type: none"> • Send • Receive • Font • Underline • text • graphics • combine • digital • image • font • mouse • select • copy • paste • highlight • safety • Internet • save • retrieve 	<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school • use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies 	<p>Can they draft and send an email?</p> <p>Can they reply to an email?</p> <p>Can they use a 'witness statement' to find out facts?</p> <p>Can they use a sound file to find out facts?</p>	<ul style="list-style-type: none"> • Talking tins / postcards, mP3 recorders

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Year2	<p>We are Games Testers Children will explore how computer games work</p> <p>Why are we learning it?</p> <p>To enable children to learn how to test and write basic code</p>	<ul style="list-style-type: none"> • Coding • Programming blocks 	<ul style="list-style-type: none"> • Code • Programme • Blocks • 	<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<p>Can they look at fairy tale pictures on the Internet?</p> <p>Can they paint a picture on screen?</p> <p>Can they add a picture to an eBook?</p> <p>Can they talk about the picture I painted?</p>	<p>Programmable toys such as:</p> <ul style="list-style-type: none"> • Bee-Bot, • Constructa-Bot • Roamer <p>Webbased coding such as Scratch</p>
Year2	<p>We are photographers Children will learn how to take photos and edit them to create a newsletter/book about a topic.</p> <p>Why are we learning it?</p> <p>To enable pupils to continue to development of word processing and design using various technologies.</p>	<p>Research, word processing, photography</p>	<p>Font Image Size Underline</p>	<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school • use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies 	<p>Can they help to plan a class newsletter?</p> <p>Can they write an article on screen?</p> <p>Can they add a photo and caption to my article?</p> <p>Can they help to make a newsletter?</p>	<p>microsoft Word / microsoft PowerPoint® / Purple mash / 2Publish+</p>
Year2	<p>We are researchers Children will learn</p>	<p>Research, story boarding, animation,</p>	<p>texture graphics undo</p>	<ul style="list-style-type: none"> • understand what algorithms are; how they are implemented as programs on digital devices; and that programs 	<p>Can they research an event from the past?</p>	<p>monkeyJam / Pencil / Anithings / 2Simple</p>

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	<p>how to Animate a time in history using various media</p> <p>Why are we learning it?</p> <p>To enable pupils to continue to develop their coding and programming skills through to use of an animation and storyboard tool.</p>		<p>background straight line tool free shape tool</p>	<p>execute by following precise and unambiguous instructions</p> <ul style="list-style-type: none"> • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs 	<p>Can they write a storyboard?</p> <p>Can they film an animation?</p> <p>Can they record sound for my animation?</p>	<p>2Animate / Can they Animate / iStopmotion (for macs) / Windows Live™ movie maker (for Windows Vista and Windows 7) / Windows movie maker (for Windows XP) Web cameras</p>
Year2	<p><u>We are astronauts</u> Children will learn how to Programme on screen using various applications</p> <p>Why are we learning it?</p> <p>To enable pupils to continue to develop their coding and programming skills</p>	<p>Coding , programmin g</p>	<p>Coding intstructions</p>	<ul style="list-style-type: none"> • understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs 	<p>Can they understand how Scratch works?</p> <p>Can they move a sprite on screen?</p> <p>Can they programme a toy?</p> <p>Can they move a sprite in the same way as the toy?</p>	<p>Digital Cameras microsoft PowerPoint®, microsoft Excel® / 2Simple 2Count / Rm Starting Graph</p>
Year2	<p><u>We are zoologists</u> Children will learn how to collect data like Bug hunt data</p>	<p>Data collecting, data handling, charts and graphs</p>		<ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content 	<p>Can they use an identification key?</p> <p>Can they record what I find on a bug hunt?</p>	<p>microsoft PowerPoint®, microsoft Excel® / 2Simple 2Count / Rm</p>

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	<p>Why are we learning it?</p> <p>To enable pupils to continue to present and collect their information using various multimedia</p>				<p>Can they use my data to create a graph?</p> <p>Can they talk about and use my graph?</p>	Starting Graph

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3	<p><u>We are programmers</u></p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to programme an animated character</p> <p>Why are we learning it?</p> <p>To enable pupils to familiarize themselves with coding and programming technologies</p>	<p>Coding , programming</p>	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 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 	<p>Have they created an algorithm for an animated scene in the form of a story board?</p> <p>Can they write a programme in scratch to create the animation?</p> <p>Can they think critically about their programming?</p>	<p>Programmable toys such as:</p> <ul style="list-style-type: none"> Bee-Bot, Constructa-Bot Roamer Webbased coding such as Scratch

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3	<p>We are bug fixers Creating a comic strip</p> <p>What are we learning? Children are learning to understand and use a range of technology and techniques to programmer an animated character</p> <p>Why are we learning it?</p> <p>To enable pupils familiarize themselves with fixing programmes when something doesn't work- bug fixing.</p>	<p>Coding ,</p> <ul style="list-style-type: none"> • programming 	<ul style="list-style-type: none"> • coding • programming • bug fixing 	<ul style="list-style-type: none"> • 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 	<p>Do they understand how coding can be foxed one step at a time to deliver the desired content ?</p>	<p>Programmable toys such as:</p> <ul style="list-style-type: none"> • Bee-Bot, • Constructa-Bot • Roamer • Webbased coding such as Scratch
3	<p>We are animators Creating a cartoon</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to create a cartoon</p> <p>Why are we learning? To develop skills in</p>	<p>Programmin g, graphics</p>		<ul style="list-style-type: none"> • 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 	<p>Can they create an algorithm for an animated scene in a storyboard? Write a program in scratch Correct mistake in my animation programme.?</p>	<p>Microphones iPads stop motion cartoons</p>

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	programming and graphic s			detect and correct errors in algorithms and programs		
3	<p>We are opinion pollsters Opinion polling</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to research opinions</p> <p>Why are we learning? To develop skills in research and data analysis</p>	<p>Research, survey creation, data analysis, charts</p>		<ul style="list-style-type: none"> 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 	<p>Do they understand good elements of a good survey design? Can they collect data safely and effectively? Can they analyse, present and interpret results?</p>	<p>Surveymonk ey™ / Google Docs Form, Google Docs Spreadsheet / InspireData®, microsoft® Word</p>
3	<p>We are communicators</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to communicate effectively</p> <p>Why are we learning?</p>	<p>Text, email, forums, chat, video conference</p>		<ul style="list-style-type: none"> 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 	<p>Can they show a basic understanding of how email workds? Can they show an understanding of e safety? Can they show understanding of different digital communication ? Can they show communication skills</p>	<p>Email system (your school's own system / Gmail or another system), video conferencing software (Gmail video-chat / JVCS or other) Webcams</p>

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	<p>To enable pupils to continue to access different avenues of social media and communication</p>			<p>content</p>	<p>with a particular audience?</p>	
3	<p>We are presenters Videoing performance</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to perform a video presentation</p> <p>Why are we learning? To enable pupils to continue to develop skills in video recording and editing</p>	<p>Video recording and editing,</p>		<ul style="list-style-type: none"> 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 	<p>Can they show skills in shooting live video and framing shots and holding the camera still? Can they show skills in editing video ,including editing clips and including narration points? Can they show a critical understanding of the qualities of effective video and comment on them?</p>	<p>Windows Live™ movie maker / Windows™ movie maker / imovie / Adobe Premiere Elements Digital video cameras</p>

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4	<p>We are co-authors Producing a wiki What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to produce a wiki</p> <p>Why are we learning? To enable pupils to continue to develop skills in combining text and graphics and editing</p>	<p>Text creation, collaborative editing, research</p>	<ul style="list-style-type: none"> Edit, amend/Highlight Font/size,style,/colour Bold, Italic, underline Cut, Copy, Paste Headings/Sub-headingsBackspace, delete Find and replace/Insert Spell-check, Proofread Textbox/Word Art Justify, align, left, right, centre Expressive language Move, Sequence, Re-order Graphics/Colour Style /Columns 	<ul style="list-style-type: none"> 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 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 acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 	<p>Do they understand how digital technology can be used to create a wiki? Can they show skills in working with image and text And combining the two.</p> <p>Have they worked collaboratively?</p> <p>Have they reflected critically on their and others work?</p>	<ul style="list-style-type: none"> mediaWiki / PBworks / Google Sites

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4	<p>We are meteorologists Presenting the weather</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to perform the weather</p> <p>Why are we learning? To enable pupils to continue to develop skills in data logging and analysis</p>	<ul style="list-style-type: none"> Data logging, data analysis, presentation, video recording 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 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 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>Can they develop further research and presentation skills?</p> <p>Can they check the plausibility of the information?</p> <p>Can they use other media appropriately and effectively to collect, analyse and present their information?</p>	<p>microsoft Excel[®] / Google Docs Spreadsheet / Internet browser, microsoft</p> <ul style="list-style-type: none"> PowerPoint[®] / IWB software
4	<p>We are musicians Producing digital music</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to produce</p>	<p>Audio recording, music composition, sequencing</p>		<ul style="list-style-type: none"> 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 	<p>Can they show competent recording and editing skills when producing their music?</p> <p>Can they use a variety of media to create a finished product?</p>	<p>JamStudio / Garage Band / FL Studio / LmmS, Audacity[®], museScore Microphone, headphones, instruments</p>

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	<p>digital music</p> <p>Why are we learning? To enable pupils to develop skills in digital recording and editing</p>			<p>presenting data and information</p>	<p>Can they talk critically about their finished product?</p>	
4	<p>We are Software Developers</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to develop a simple educational game</p> <p>Why are we learning? To enable pupils to continue to develop skills using programming language (coding)</p>	<p>Survey creation, databases, presentation</p>		<ul style="list-style-type: none"> 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 	<p>Can they develop further research and presentation skills?</p> <p>Can they check the plausibility of the information?</p> <p>Can they use other media appropriately and effectively to collect, analyse and present their information?</p>	<p>microsoft Excel[®] / Google Docs Spreadsheet, SurveyMonkey[™] / Google Docs Form, word processor</p>
4	<p>We are toy designers</p> <p>What are we learning? children are learning to prototyping an interactive toy</p>	<p>Vector graphics, programming</p>		<ul style="list-style-type: none"> 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 	<p>Can they develop further coding and algorithms skills?</p> <p>Can they write a programme using</p>	<p>Scratch, InkScape / Adobe Illustrator / CorelDRAW</p>

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4	<p><i>What are we learning?</i> <i>Why are we learning it?</i></p>	<p><i>What specific skills need to be taught and practised?</i></p>	<p><i>What specific language must children know in order to be able to be successful?</i></p>	<p><i>Which area/s of the NC 2014 will be the focus?</i></p>	<p><i>What specific skills or outcomes will be assessed as part of this unit? How?</i></p>	<p><i>What do we need to have in place in order for children to be able to be successful?</i></p>
	<p>Why are we learning? To enable pupils to continue to develop skills in programming and graphics</p>			<p>repetition in programs; work with variables and various forms of input and output</p> <ul style="list-style-type: none"> • use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs 	<p>scratch ?</p> <p>Can they develop understanding and critical thinking by using testing?</p>	
4	<p>We are HTML editors</p> <p>What are we learning?</p> <p>Children are learning to Edit and write HTML</p> <p>Why are we learning? To enable pupils to understanding how computer networks work.</p>	<p>Research, digital photography, video recording, video editing</p>		<ul style="list-style-type: none"> • 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 • design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts • 	<p>Can they use HTML code to write a website and code something to happen?</p> <p>Can they explain what HTML is used for?</p>	<p>Internet Explorer/Chrome/Firefox.</p>

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5	<p>We are web developers: Creating a web page about cyber safety</p> <p>What are we learning?</p> <p>Children are learning write their own webpage</p> <p>Why are we learning? To enable pupils to develops skills about writing webpages as well as the knowledge about Cyber Safety.</p>	<p>HTML coding Creating a web page about cyber safety</p>	<ul style="list-style-type: none"> • HTML • Coding • programming • 	<ul style="list-style-type: none"> • 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 	<p>Can they collate and edit a digital library? Can they think about the layout of a webpage to make it attractive to viewers? Can they add the necessary information without overloading their reader?</p>	<ul style="list-style-type: none"> • Word Press • Google Chrome

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5	<p>We are architects Creating a virtual space</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to perform 3d modeling</p> <p>Why are we learning? To enable pupils to develop skills in 3d modeling and image management</p>	<ul style="list-style-type: none"> • 3-D modelling, research, image management • Programming ,coding 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 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 • use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 	<p>Can they create an algorithm for an animated scene in a storyboard/virtual environment?</p> <p>Can they write a program in scratch to create this?</p> <p>Can they correct any mistakes in my animation programme.?</p>	<ul style="list-style-type: none"> • Google SketchUp • Digital cameras
5	<p>We are bloggers Media reviews</p> <p>What are we learning?</p> <p>Children are learning to</p>	<p>Text and other media, writing for an audience</p>		<ul style="list-style-type: none"> • 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 	<p>Can they show a strong understanding of how email works?</p> <p>Can they show an</p>	<p>WordPress, Blogger, learning platform blogging tool (also, GIMP, Audacity®, Windows</p>

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	<p>understand and use a range of technology and techniques to perform a media review</p> <p>Why are we learning? To enable pupils to continue to develop skills media presentation</p>			<ul style="list-style-type: none"> 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 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>understanding of e safety when communicating?</p> <p>Can they show understanding of different digital communication?</p> <p>Can they show communication skills with a particular audience and talk critically about their work?</p>	<p>moviemaker, Windows Live™ (movie maker) Digital video</p>
5				•		
5	<p>We are Cryptographers</p> <p>What are we learning?</p> <p>Children are learning to understand how codes are used to communicate and how to crack these codes</p> <p>Why are we learning? To enable pupils to continue to develop</p>	<p>Programming, coding, graphics</p>		<ul style="list-style-type: none"> 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 	<p>Can they crack a code? Can they identify code?</p> <p>Can ?</p>	<p>A variety of different codes- eg. Morse code, hieroglyphics</p>

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	<p>their coding skills for programming</p>			<p>how some simple algorithms work and to detect and correct errors in algorithms and programs</p>		
5	<p>We are Game Developers</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to produce a coding game</p> <p>Why are we learning?</p> <p>To enable pupils to continue to develop skills in coding and programming</p>	<p>Programming, coding, graphics</p>		<ul style="list-style-type: none"> 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 	<p>Can they develop further coding and algorithms skills?</p> <p>Can they write a complex programme using scratch?</p> <p>Can they develop understanding using testing?</p>	<p>Scratch Excel Real / virtual games, microphones, sensor boards, speakers</p>
6	<p>We are artists</p> <p>What are we learning?</p> <p>Children are learning to fuse geometry and art in this topic</p>	<p>Creativity</p>		<ul style="list-style-type: none"> 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, 	<p>Can they confidently use a range of multimedia presentation?</p>	

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	Why are we learning? To enable pupils to develop a variety of tools to present information			<p>systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <ul style="list-style-type: none"> • 		

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6	<p><i>What are we learning?</i> <i>Why are we learning it?</i></p>	<p><i>What specific skills need to be taught and practised?</i></p>	<p><i>What specific language must children know in order to be able to be successful?</i></p>	<p><i>Which area/s of the NC 2014 will be the focus?</i></p>	<p><i>What specific skills or outcomes will be assessed as part of this unit? How?</i></p>	<p><i>What do we need to have in place in order for children to be able to be successful?</i></p>
6	<p>We are computational thinkers</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to create patterns and explore simulations</p> <p>Why are we learning?</p> <p>To enable pupils to continue to develop skills in computational thinking</p>	<p>instructions order simulations programming debugging Sim City</p>	<ul style="list-style-type: none"> databases and/or search bookm ark audience internet index URL key words copy right search engine bias string hyperlink 	<ul style="list-style-type: none"> use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 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>Can they develop further programming and debugging skills</p> <p>Can they develop their understanding of what makes a simulation successful?</p> <p>Can they develop collaboration skills?</p>	<p>Digital cameras, video cameras, audio recorder or microphone, GPS device (useful but not essential)</p> <p>Google Earth</p> <p>Sim City</p>

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6	<p>We are game developers Creating an adventure game</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to produce an adventure game</p> <p>Why are we learning? To enable pupils to continue to develop skills in programming and coding to produce a game/app</p>	<p>Programming, graphics, coding text based coding (new to 2018)</p>		<ul style="list-style-type: none"> 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 	<p>Can they develop coding and algorithms skills ?</p> <p>Can they write a programme using scratch?</p> <p>Can they develop understanding using testing?</p>	<p>Digital cameras, video cameras, audio recorder or microphone Powerpoint, Scratch Python</p>
6	<p>We are travel writers Cyber safety research / Media</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to perform a</p>	<p>Research, collaboration, web design, coding, programming video presentation, blogging/vlogging</p>		<ul style="list-style-type: none"> 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 	<p>Can they develop further research and presentation skills ?</p> <p>Can they check the plausibility of the information?</p> <p>Can they use other media appropriately and effectively</p>	<p>Google Sites / PBworks / mediaWiki Digital cameras, video cameras, audio recorder or microphone</p>

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	<p>media presentation</p> <p>Why are we learning? To enable pupils to develop skills in web design</p>			<p>some simple algorithms work and to detect and correct errors in algorithms and programs</p> <ul style="list-style-type: none"> • 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; identify a range of ways to report concerns about content and contact 		
6	<p>We are advertisers Creating an advert- Year 6 Play</p> <p>What are we learning?</p> <p>Children are learning to understand and use a range of technology and techniques to create an advert</p>	<p>Research, video recording, video editing, others</p>		<ul style="list-style-type: none"> • 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 	<p>Do they understand how digital technology can be used in advertisements and graphics?</p> <p>Can they show skills in working with image and text And combining the two. To create an attractive advertisement?</p>	<p>Windows movie maker (XP), Windows Live™ movie maker (for Vista and Windows 7), microsoft PowerPoint®, microsoft Word®, Comic Life</p>

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	Why are we learning? To enable pupils to continue to develop skills in video recording and editing and research			acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Have they worked collaboratively? Have they reflected critically on their and others work?	
6	We are publishers Creating a yearbook What are we learning? Children are learning to understand and use a range of technology and techniques to create a digital yearbook Why are we learning? To enable pupils to continue to develop skills in image and video editing and photography	Photography, image editing, graphics, text, DTP		<ul style="list-style-type: none"> 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 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for 	Have pupils further developed the word processing skills? Can they show appropriate page design skills? Can they develop their reviewing and document design? Have they developed their capacity to work collaboratively?	microsoft Publisher™ / Adobe InDesign / Scribus, microsoft Word® / Google Docs Documents, Picasa™ / GIMP, Adobe Acrobat Digital cameras and/or scanners, audio recorder or microphone

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				communication and collaboration		
6	<p>We are data loggers (link to Science) What are we learning?</p> <p>Children are learning to understand and use a range pre-programming features of data logging software and devices to set up a specific data capture, perhaps overnight.</p> <p>Why? Understand and predict patterns in graphical data.</p> <p><input type="checkbox"/> Explain when data capture will be useful and design experiments involving data loggers.</p> <p><input type="checkbox"/> Explain the strengths and weakness of data logging and understand how to spot spurious results and moderate them.</p>		<p>Confidently use a range of external sensors (heart rate monitors, alternative energy, light gates etc) in a variety of situations in the course of scientific investigations.</p> <p><input type="checkbox"/> Use a data logger as a timing device with light gates</p> <p><input type="checkbox"/> Use graphical information to answer questions and solve simple problems</p>	<ul style="list-style-type: none"> 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 	<p>Can the children Pre-programme at least one appropriate sensor to carry out an investigation? Can they Connect the equipment, set the period and interval of logging and obtain some results? Can they Question inaccurate results and explain why they might have arisen? Can they save their results and carry out some analysis to summarize findings? Can they describe advantages, disadvantages and limitations of using data logging equipment?</p>	<p>data logger</p> <ul style="list-style-type: none"> data logging software