



Computing – Long Term Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year R	Basic Skills (selecting app, typing) Using Ipads and IWB to draw, write stories as determined by EYFS curriculum. E-safety : Knowing to call an adult if anything is wrong.					
Year 1	NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content Digital art using a Drawing App NC: Recognise common uses of information technology beyond school. use technology safely and respectfully Tapestry: Taking photos, upload work	NC: recognise common uses of information technology beyond school Using Apps (Hit the button, Phonics play) Using a keyboard to type NC: Use technology safely and respectfully E-Safety: What is OK to share? (Tapestry)	NC: recognise common uses of information technology beyond school Using Digital Maps NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content Take photos and write captions NC: Use technology safely and respectfully E-safety (Personal Information)	NC: understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions Beebots NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content Purplemash 2Story	NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content Pictograms as a class using 2 Count (link with Geography) NC: Use technology safely and respectfully E-safety	NC: understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions Programming Ipad apps: Daisy the Dinosaur, Beebots
Year 2	NC: Use technology safely and respectfully E-safety Search engine Kids rex	NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school Basic Skills Using a keyboard	NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content Podcasts (Ipads) – record sound	NC: 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. Programming Ipad apps	NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content Pictograms individually	NC: 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. Programming with Scratch Jr.



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	<p>NC: Use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>Combining text and pictures, changing fonts 2Story</p>	<p>How to use a laptop, file storage (computer/ipad versus internet) Purple Mash 2Story</p>	<p>NC: Use technology safely and respectfully</p> <p>E-safety podcast on e-safety</p>	<p>-algorithm -Daisy the Dinosaur =Program the Beebots to draw letters.</p>	<p>NC: Use technology safely and respectfully</p> <p>E-Safety: what is personal information</p>	<ul style="list-style-type: none"> - Driving a car - Dance party - Run a race - Dribble a basket ball - Meet & greet
<p>Year 3</p>	<p>Basic Skills (using own login) NC: use technology safely, respectfully and responsibly Digital Citizen E-safety Search engine Kids rex</p> <p>NC: 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>Microsoft Word: Fact file with information searched</p>	<p>NC: 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>Powerpoint Presentation about Christmas story. Combining text, graphics and sound.</p>	<p>NC: 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>Email –using Purple Mash 2Mail NC: use technology safely, respectfully and responsibly E-safety -email</p>	<p>NC: 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 program</p> <p>Programming Scratch Algorithm to play a tune Scratch - Draw a square – play a tune - Smoking Car game</p>	<p>NC: 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 program</p> <p>Lego Workshop</p> <p>NC: 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>Spreadsheet Graph based on plants habitat</p> <p>NC: use technology safely, respectfully and responsibly E-safety – personal information</p>	<p>NC: 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 program</p> <p>Programming with Scratch -Dressing Up Game -Conversation</p>



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Year 4	<p>NC: use technology safely, respectfully and responsibly</p> <p>E-safety Search engine Kids rex - gathering information</p> <p>NC: 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>Creating a Blog using 2Blog</p>	<p>NC: 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>Microsoft PowerPoint: Create a poster</p> <p>Typing Skills</p>	<p>NC: use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Digimaps linked with Geography</p> <p>NC: 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>Podcasts (Audacity)</p> <p>NC: use technology safely, respectfully and responsibly</p> <p>E-safety</p>	<p>NC: 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 program</p> <p>Programming Scratch</p> <ul style="list-style-type: none"> - Dance routine - Music Machine - Sprite animation 	<p>NC: 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>Animation Introduction to Zu3D Project in pairs.</p> <p>NC: use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Digimaps</p> <p>NC: use technology safely, respectfully and responsibly</p> <p>E-safety – personal information/photos</p>	<p>NC: 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 program</p> <p>Programming with Scratch</p> <ul style="list-style-type: none"> - Maths Quiz - Counting Machine - Etcha Sketch <p>NC: use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Digimaps</p>
Year 5	<p>NC: use technology safely, respectfully and responsibly</p> <p>E-safety Search engine Kids rex</p> <p>NC: select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of</p>	<p>NC: 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>NC: use technology safely, respectfully and responsibly</p> <p>E-safety: Staying safe online</p> <p>NC: design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing</p>	<p>NC: 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 program</p>	<p>NC: 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>Pie Charts</p>	<p>NC: 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 program</p>



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	<p>programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <p>Create a blog about Ancient Civilisations using 2Blog</p> <p>NC: 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 program</p> <p>Scratch revision – drawing a circle.</p>	<p>Create a multimedia resource about the solar system.</p> <ul style="list-style-type: none"> - Powerpoint - Scratch 	<p>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 program</p> <p>Programming Scratch Etcha Sketch (if not done in Yr4) Crab Maze</p>	<p>Programming Scratch Introduction to variables Scratch-calculating perimeter</p>	<p>NC: 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 program</p> <ul style="list-style-type: none"> - Flowcharts - Counting Machine - Programming a clock <p>NC: use technology safely, respectfully and responsibly</p> <p>E-safety: personal information</p>	<p>Programming with Scratch (or other)</p> <ul style="list-style-type: none"> - Times Tables Game - Exploring Right Angles
Year 6	<p>NC: use technology safely, respectfully and responsibly</p> <p>Digital Citizen</p> <ul style="list-style-type: none"> - E-safety create presentation <p>NC: use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Search engine Kids rex</p> <ul style="list-style-type: none"> - Databases 	<p>NC: 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 program</p> <p>Programming Microbits Creating a 'frustration' game using microbits and wire.</p>	<p>NC: 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>Formulae in spreadsheets:</p> <ul style="list-style-type: none"> -creating spreadsheets -graphs -formulae 	<p>NC: 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 program</p> <p>Programming Scratch</p> <ul style="list-style-type: none"> - Cartesian coordinates 	<p>NC: 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>Creating a Website using HTML</p> <p>NC: use technology safely, respectfully and responsibly</p> <p>E-safety Staying safe online</p>	<p>NC: 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 program</p> <p>Programming with Scratch (or other)</p> <ul style="list-style-type: none"> - Creative project



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				- Using scratch to solve maths problems		<p>NC: 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><u>Animation</u> Use Zu3D to create an animation of Lowry scene.</p> <p>NC: use technology safely, respectfully and responsibly</p> <p><u>E-safety</u> - <u>Fake news</u></p>
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Key: **Digital User – Black** **Digital Citizen – Green** **Digital Designer - Red**