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At Newbold we aim to support each other to live, learn and excel together as a Christian community.

"Therefore encourage one another and build each other up," 1 Thessalonians 5:11

Computing Curriculum Map		Autumn	Spring	Summer
Year A	EYFS	Explore, use and refine a variety of artistic effects to express their ideas of Explore how things work (Understanding of the World, Development matches will also talk about safety online during PSHE lessons in the summer	npetently, safely and confidently. (Reception, Physical Development, Develo and feelings. (Reception, Expressive Arts and Design, Development Matters, tters 3&4 year olds)	
	1	Year 1: Painting, To use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use logical reasoning to predict the behaviour of simple programs. Year 1: Programming Toys Understand that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use technology purposefully to create digital content. Understand how [algorithms] are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.	Year 1: Word Processing Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Internet Safety Week-Use Cambridgeshire PSHE unit to support & resources especially for the week. (See PSHE Digital Lifestyles) Year 1: Programming with Scratch Jr To understand that programs execute by following precise and unambiguous instructions. To use logical reasoning to predict the behaviour of simple programs. To create and debug simple programs.	Year 1: Computer skills Use technology purposefully to manipulate and retrieve digital content. Use technology safely and respectfully. Year 1: Using & Applying Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Internet Safety -Fill any gaps using Cambridgeshire PSHE unit to support (See PSHE Digital Lifestyles)
	2	Year 2: Computer Art To use technology purposefully to create, organise, store, manipulate and retrieve digital content. Year 2: Preparing for Turtle Logo Understand what algorithms are, and that programs execute by following precise and ambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	Year 2: Using the internet Use technology purposefully to create, organise, and store digital content. To 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. Internet Safety Week-Use Cambridgeshire PSHE unit to support & resources especially for the week. Year 2: Programming with Turtle, Logo & Scratch Understand what algorithms are; and that programs execute by following precise and ambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	Year 2: Presentation skills Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use technology safely and respectfully. Year 2: Using & Applying Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Understand what algorithms are; and that programs execute by following precise and ambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs Internet Safety -Fill any gaps using Cambridgeshire PSHE unit to support



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Computing	Autumn	Spring	Summer
Curriculum Map			
3/4	Year 3: Online Safety	Year 3: Programing Turtle Logo and Scratch	Year 3: Drawing and Desktop Publishing
3/ 1	To know what cyberbullying is and how to address it	To create and debug an algorithm using the move, rotate and repeat	To draw with different shapes and lines
	Understand how websites use advertisement to promote products	commands	To order and group objects
	To create strong passwords and understand privacy settings	To create and debug an algorithm using penup and pendown	To manipulate shaoes and lines
	Safely send and receive emails	To create and debug an algorithm that draw regular polygons	To recognize effective layout
	Explore different ways to communicate online	To create and debug an algorithm that draw shapes and patterns	To combine text and images
	Use knowledge about online safety to plan a party online		To layout objects effectively
	Year 3: Online Searchers and Surfers	Year 3: Word Processing	Year 3: Presentation Skills
	To understand what the internet is and how it is used around the world	To use basic computer skills	To plan a branching story
	To understand how the internet works	To change the case of text	To add theme, transitions and animations to a presentation
	To understand how to use search engines to make safe online searches	To align text	To use action settings
	To know how to use and compare different website links to find	To use bullet points and numbering	To insert audio and video
	reliable information online	To use the <ctrl> key</ctrl>	To evaluate slide layout and make improvements
	To copy and paste images from a web page using different methods	To insert and format text boxes	
5/6	Year 5: Online Safety	Year 5: Scratch – Developing Games	Year 5: Controlling Devices: Flowol
3,3	To identify spam emails and know what to do with them	To design and program a character game	To draw and interpret a flowchart with the correct symbols
	To write citations for the websites used for research	To design an original character or backdrop for a game	To create and edit a flowchart to control a simulated device
	To create strong passwords	To add features or effects to enhance a game	To control multiple outputs at the same time
	To apply online safety rules to real-life scenarios	To create an original animated game with a specific goal	To use a decision symbol based on the status of an input
		To program costume changes for a sprite	To create a flowchart program containing a subroutine
		To add point-scoring and levels to game code	To design, write and debug my own flowchart program for a given ta
	Year 5: Strategic Searching Online		
	To find out information on the internet using search engines	Year 5: 3D Modelling: Sketch Up	Year 5: Radio Station
	To use a search engine effectively by refining the search term	To draw 3D shapes	To use software to create my own sounds by recording, editing and
	To identify what makes a website reliable and trustworthy	To add detail to 3D drawings	playing
	To understand how search engines work	To add and manipulate 3D models	To combine audio effects to create an original radio jingle
	To understand and explain what page ranking is	To create a complex 3D model	To research and plan digital content for a radio podcast
	To use Search Engine Optimisation to improve a web page	To create a 3D model of my own design	To use software to create and present digital content for a radio podcast
			To design and record a persuasive radio advert for a product or serv

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Computing Curriculum Map		"Therefore encourage one another and build each other up," 1 Thessalonians 5:11 Page 3 of 4		
		Autumn	Spring	Summer
Year B	EYFS	Repeat Year A		
	1	Year 1: Painting, To use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use logical reasoning to predict the behaviour of simple programs. Year 1: Programming Toys Understand that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use technology purposefully to create digital content. Understand how [algorithms] are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.	Year 1: Word Processing Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Internet Safety Week-Use Cambridgeshire PSHE unit to support & resources especially for the week. (See PSHE Digital Lifestyles) Year 1: Programming with Scratch Jr To understand that programs execute by following precise and unambiguous instructions. To use logical reasoning to predict the behaviour of simple programs. To create and debug simple programs.	Year 1: Computer skills Use technology purposefully to manipulate and retrieve digital content. Use technology safely and respectfully. Year 1: Using & Applying Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Internet Safety -Fill any gaps using Cambridgeshire PSHE unit to support (See PSHE Digital Lifestyles).
	2	Year 2: Computer Art To use technology purposefully to create, organise, store, manipulate and retrieve digital content. Year 2: Preparing for Turtle Logo Understand what algorithms are, and that programs execute by following precise and ambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	Year 2: Using the internet Use technology purposefully to create, organise, and store digital content. To 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. Internet Safety Week-Use Cambridgeshire PSHE unit to support & resources especially for the week. Year 2: Programming with Turtle, Logo & Scratch Understand what algorithms are; and that programs execute by following precise and ambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	Year 2: Presentation skills Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use technology safely and respectfully. Year 2: Using & Applying Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Understand what algorithms are; and that programs execute by following precise and ambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs. Internet Safety -Fill any gaps using Cambridgeshire PSHE unit to support.
	3/4	Year 4: Online Safety To identify how a message can hurt someone's feelings. To say how I should respond to a hurtful message online To use a search engine accurately. To understand the term 'plagiarism' and how to avoid it. To create a safe online profile. To explain how to be a responsible digital citizen. To create an online safety superhero character.	Year 4: Programming Turtle Logo To create and debug an algorithm to create a procedure. To create and debug an algorithm that uses setpos to draw shapes. To create and debug an algorithm with different colours. To create and debug an algorithm to fill areas with colour. To create and debug an algorithm to produce text. To create and debug an algorithm to draw arcs.	Year 4: Scratch: Questions and Quizzes To compare quizzes and decompose a problem into smaller parts. To write and debug a program which uses sequence and repetition To use sequence and selection. To work with variables. To write a program. To design, write and debug my own program by selecting appropriate visual block commands to create a sequence.



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Computing	Autumn	Spring	Summer
Curriculum Map			
	Year 4: Communication and Collaboration To explore the different ways we can communicate online. To understand the positives and negatives of communicating online. To understand what email is and how it is used. To understand how to send and receive emails. To use the features of email to communicate with others. To know how to work collaboratively using online software. To know how to use collaborative tools online to contribute to others' work.	Year 4: Word Processing To format images for a purpose. To use formatting tools to create an effective layout. To use the spellcheck tool. To insert and format a table in a word processing document. To change a page layout for a purpose. To create hyperlinks within a word document.	Year 4: Animation To describe early forms of animation before computers and how computers have made a difference. To create a short computer animation using one or more moving stifigures. To create a recorded animation involving a number of moving characters on a background. To structure specific timing of animations using a time slider. To use a camera to create a short stop motion animation film. To analyse and evaluate software.
5/6	Year 6: Online Safety To find similarities and differences between in person and cyberbullying. To identify good strategies to deal with cyberbullying. To identify secure websites by identifying privacy seals of approval. To understand the benefits and pitfalls of online relationships. To identify information that I should never share. To identify how the media play a powerful role in shaping ideas about girls and boys. To apply my online safety knowledge to my online activities. To use my knowledge of online safety to create a multiple-choice quiz. Year 6: Know Your Network To know what computer networking is. To understand the advantages and disadvantages of a computer network. To understand what LAN (local area network), MAN (metropolitan area network) and WAN (wide area network) are. To understand how computers connect to the Internet using protocols. To understand how computers send and receive information using packets and routing. To know the differences between the Internet and World Wide Web. To understand what cloud computing is. To understand how broadband and online streaming are part of a network and are used as communication methods on the Internet. To understand what malware is and how this can affect a computer network. To identify ways of minimising risks of cybersecurity threats.	Year 6: Kodu Programming To investigate and evaluate the features of programming software. To program Kodu using 'When' and 'Do' instructions. To use tools and add features to create an original landscape in Kodu. To analyse and deconstruct code to work out its purpose. To program a character to be controlled around a custom track to reach a goal. To program a character to follow an automatic path. Year 6: Spreadsheets To enter data and formulae into a spreadsheet. To order and present data based on calculations. To add, edit and calculate data. To use a spreadsheet to solve problems. To plan and calculate a spending budget. To design a spreadsheet for a specific purpose.	Year 6: Scratch: Animated Stories To create appropriate animations for a story scene. To structure and control the timing of events. To control when objects need to be visible. To sequence events to create a story narrative. To add voice sounds to enhance an animated story. To add interactive user features to a scene or story. Year 6: Film Making To use appropriate software and other tools effectively to write a fiscript. To locate and check appropriate digital content, and provide accura crediting of sources. To use digital recording devices to film and import into video editing software. I can plan, conduct and import video interviews as part of a short. I can use video editing software to create a short film. To use video editing software to turn a film project into a finished movie and present it.