



The Globe Primary Academy Termly Overview of Computing Topic 2021-22

	Internet	Data	Word processing	Presentation	Programming	Using and applying
Reception Vocabulary: Internet Control Information Program	Can I say if something they find on the internet makes them feel bad? Can I speak to an adult about what they have seen? Can I follow the school's safer internet rules?		Can I write my name using a keyboard on different devices? Can I use the caps lock for the initial sound in their name? Alphasmarts	Can I use a simple paint programme with increasing mouse control? Links to Art. Exploring simple lines and colour to make a portrait in Paint.	Can I use a range of control toys and devices? Introduction to Beebot - exploring how to make it move forwards, back and turn. Cameras - I can use a camera/ipad to document my learning, as a means of discussion or to add to my learning.	Can I talk about what they are doing on a computer? With support, can I use the internet to find out information? Can I name and use a keyboard and mouse with developing control? Can I understand the purpose of and experiment with hardware such as cameras, computers, ipads, voice recorders
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Year 1 Vocabulary: Internet Control Information Program Password Data Algorithm De-bug Search Selection Sequence Web Address Device	Can I understand that some information is personal and should not be shared online? Can I recognise that the majority of technology devices have access to the internet? Do I know how to act if they find inappropriate content online? Can I begin to evaluate websites and know that everything on the internet is not true? Can I follow the school's safer internet rules? Can I begin to understand the term web address? Can I email safely as a class?		<u>Textease: Word processing skills</u> o Typing o Symbols and save o Editing o Undo and redo o Select and format o Formatting text Can I use the keyboard to write my name with a capital letter? Can I discuss and talk about control technology and new technologies' and understand how to use them? Can I select the appropriate program by finding and retrieval through the school network? Can I use keyboard skills to type a simple username and password into a given program? Can I save their work to a folder and retrieve it when needed? Can I begin to understand how to edit and copy information using a variety of media?	<u>Paint/Dazzle</u> o Colours o Brushes o Shapes and fill o Undo and redo o Text o Making a poster Can I understand that computers and technology can be used to represent and model situations? Can I enter information into a template to make a graph and pictogram? Can I answer questions relating to a graph and pictogram? Do I recognise what an email address looks like? Can I join in sending a class email? Can I enter text using a keyboard? Can I record a sound and play it back? Can I use the use the space bar, backspace and return key? Can I create an image relating to a topic covered in class and add a title?	<u>Programming (beebots)</u> o Cool characters o Grow and shrink o Time to move o Repeat o Sounds o Sequencing Can I begin to develop computational thinking by following instructions to move around a course and create a series of instructions for others to follow? Can I explore floor turtles, combining sequences of instructions to follow a pattern or create a shape. Do I know that commands affect algorithms? <u>Programming (code studio.)</u> o Cool characters o Grow and shrink o Time to move o Repeat o Sounds	<u>Computer skills:</u> o Using a mouse/ track pad o Switch on and shut down safely o Applications and windows o Folders and save o Dragging Do I know that there is a wide range of technology and can they name some equipment? Can I use a range of different technology and talk about its use? Can I use keyboard skills to type a simple username into a given program? Can I safely use technology by opening and closing a piece of equipment safely? Charlie chimp Flo bot <u>Using and Applying</u> o Skills check o Typing o Editing



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			Textease Badger Trail	Textease Paint/dazzle	<ul style="list-style-type: none"> Sequencing <p>Can I explore a simulation to support a given topic and talk about what happens and why? Can I explore outcomes when individual buttons are pressed on robots, such as floor turtles and combine these together to draw simple shapes or follow a route?</p> <p>Code studio angry birds</p>	<ul style="list-style-type: none"> Paint with shapes Paint with brushes Text and images <p>Can I send group email in a controlled environment and reply? Can I draw on screen image? Do I know how to use the simple functions of a tool bar? Can I add images and clip art images? Can I cut, copy and paste on to a document? Can I capture & download images from a camera/device? Can they record video? Can they record people's voices as a voice over? Can they create basic presentations?</p> <p>Dazzle; Textease; Paint</p>
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Year 2 Internet Control Information Program Password Data Algorithm De-bug Search Selection Sequence Web Address Device Computer Network Execute Input Output Software World wide web Public Private	<u>Using the internet</u> <ul style="list-style-type: none"> One Word Search For Kids Links Taking Photos for Our Blog Blogging Comments <p>Am I aware that email is used beyond school?</p> <p>Can I send individual email in a controlled environment and reply?</p> <p>Can I develop speed when typing and use a simple document with increasing control?</p> <p>Can I follow the school's safer internet rules?</p> <p>Can I evaluate websites and know that everything on the internet is not true?</p>		<u>Paint/Dazzle: Computer Art</u> <ul style="list-style-type: none"> Pixel Pointillism Mastering Mondrian Producing Picasso Colour Coding PC Pop Art Creating a Masterpiece! <p>Can I explore an on screen turtle and navigate it around a course or grid and/or draw shapes by inputting a sequence of instructions?</p> <p>Can I begin to understand that the on screen turtle can be directed through the use of text?</p> <p>Can I enter information into a basic computer simulation and explore the effects of changing the variables in simulations and discuss the benefits of using these simulations?</p> <p>Can I discuss my use of stimuli.</p>	<u>Presentation skills</u> <ul style="list-style-type: none"> Folders What is a presentation? New Slide, Slide Layout Add and Format an Image Reorder Slides and Present Searching and Printing <p>Can I use basic computer skills?</p> <p>Can I use folders?</p> <p>Can I organise ideas for a presentation?</p> <p>Can I create a simple presentation with text?</p> <p>Can I add and format an image?</p> <p>Can I reorder slides and present a presentation?</p> <p>Can I search and print?</p>	<u>Preparing for Turtle Logo (unplugged unit)</u> <ul style="list-style-type: none"> Moving forward and Making Turns Half and Quarter Turns Right 90 and Left 90 Completing Algorithms Command Abbreviations From Here to There <p>Can I give and follow an algorithm to turn right or left?</p> <p>Can I give and follow an algorithm to make half and quarter turns?</p> <p>Can I give and follow an algorithm using the commands right 90 and left 90?</p> <p>Can I give, follow and complete an algorithm?</p> <p>Can I use recognised language in</p>	<u>Using and Applying</u> <ul style="list-style-type: none"> Pointillism Cubism Castle Perfect Presentations Retrieve, Edit and Present Scratch Castle Scratch Skills <p>Can I word process work, changing the font, font size, colour?</p> <p>Can I cut, copy and paste an image, text box, word art and clipart onto a document?</p> <p>Can I format their text to refine and improve? e.g underline, italics, bold.</p> <p>Can I produce an interactive presentation using a range of media? E.g. slide transition/ sound effects etc.</p>



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	<p>Can I recognise that there are other people on the internet and this affects how they should use it?</p> <p>Do I know how to act if they find inappropriate content online?</p> <p>Can I tell a trusted adult if someone they don't know tries to contact them via the internet?</p> <p>Can I understand that they should only open an email from someone they know?</p> <p>Can I send and receive emails safely?</p> <p>Do I understand why passwords shouldn't be shared?</p> <p>Can I use the internet safely for learning and communicating with others?</p> <p>Can I recognise advertising on website and learn to ignore it?</p>				<p>an algorithm?</p> <p>Can I create, test and debug an algorithm?</p> <p><u>Programming Turtle Logo and Scratch</u></p> <ul style="list-style-type: none"> ○ Drawing Shapes ○ Repeat ○ Movement and Sound ○ Repeat and Say Something ○ Green Flag ○ Sprites <p>Can I create an algorithm to move or rotate the turtle?</p> <p>Can I create an algorithm and use the repeat command?</p> <p>Can I create an algorithm and add sound?</p> <p>Can I create an algorithm and use the repeat and say command?</p> <p>Can I create an algorithm and use the green flag to start?</p> <p>Can I create an algorithm and use the commands to change the backdrop and add sprites?</p>	
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<p>Year 3</p> <p>Vocabulary:</p> <p>Internet</p> <p>Control</p> <p>Information</p> <p>Program</p> <p>Password</p> <p>Data</p> <p>Algorithm</p> <p>De-bug</p> <p>Search</p> <p>Selection</p> <p>Sequence</p>	<p><u>Internet research and communication</u></p> <ul style="list-style-type: none"> ○ Word Order ○ Order of Returned Results ○ Saving and Sharing ○ How Do We Communicate Online? ○ Word Order ○ Word Order <p>Can they use the email address book and can they open and send an attachment?</p> <p>Do they understand how to</p>		<p><u>Word processing</u></p> <ul style="list-style-type: none"> ○ Screenshots and Passwords ○ Change Case ○ Align Text ○ Bullets and Numbering ○ Advanced Select and Keyboard Shortcuts ○ Using Text Boxes and Text Wrap <p>Can I use basic computer skills?</p> <p>Can I change the case of text?</p> <p>Can I align text?</p>	<p><u>Drawing and desktop publishing</u></p> <ul style="list-style-type: none"> ○ Objects ○ Ordering and Grouping ○ Manipulating Objects ○ Posters ○ Combining Text and Images ○ Effective Layouts <p>Can I draw with different shapes and lines?</p> <p>Can I order and group objects?</p> <p>Can I manipulate shapes and</p>	<p><u>Programming Turtle Logo and Scratch</u></p> <ul style="list-style-type: none"> ○ Backwards ○ Pen Up and Pen Down ○ Regular Polygons ○ Drawing ○ Regular Polygons in Scratch ○ Pens <p>Can I create and debug an algorithm using the move, rotate and repeat commands?</p> <p>Can I create and debug</p>	<p><u>Using and Applying skills</u></p> <ul style="list-style-type: none"> ○ Create an informative presentation about your school



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Web Address Device Computer Network Execute Input Output Software World wide web Public Private Logical reasoning Repetition Script Variables Digital Footprint Personal Information	navigate the internet simply? Can they find relevant information by browsing a menu? Can they search by keyword using a child friendly search engine? Can they bookmark a page into "your favourites"? Can they understand that once an online message has been sent it cannot be taken back and understand that there might be consequences of this? Can they recognise that people on the internet are not always who they say they are? Can they understand that if they make personal information available online it may be seen by others? Can they understand the need to keep personal information and password private? Do they know how to respond if asked for personal information or feel unsafe about the content of a message? Can they understand the outcome of internet searches at home may be different at home than at school? Can they explain how to use email safely?		Can I use bullets and numbering? Can I use the key? Can I insert and format text boxes?	lines? Can I recognise effective layout? Can I combine text and images? Can I lay out objects effectively? Presentation skills <ul style="list-style-type: none"> o Planning a branching story o Creating the slides o Themes, transitions and animations o Action settings o Audio and video o Completing the story. Can I plan a branching story? Can I create slide templates and organise slides with hyperlinks? Can I add theme, transitions and animation to a presentation? Can I use action settings? Can I insert audio and video? Can I evaluate slide layout and make improvements?	algorithms using penup and pendown? Can I create and debug algorithms that draw regular polygons? Can I create and debug algorithms that draw shapes? Can I create and debug algorithms that draw regular polygons? Can I create and debug algorithms to draw patterns?	
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Year 4 Vocabulary: Internet Control Information Program Password Data Algorithm De-bug Search Selection	E-safety Do they know what the term browser is and can they use it to navigate a variety of programmes? Can they use tabbed browsing to open two or more web pages at the same time? Do they know how to use a wide variety of technology to suit a particular purpose?	Excel and spreadsheets Can they input data , using previously collected information, on their database template? Can they use a database to answer questions by constructing queries? Can they enter data highlighted to make bar charts? Can they create databases, planning the fields, rows and columns taking into consideration	Word <ul style="list-style-type: none"> o Ingenious Images o Learn the Layout o Super Spelling o Time for Tables o Transform a Layout o Hyperlinks in e-Vouchers Can I format images for a purpose? Can I use formatting tools to	Publisher / Powerpoint Can they understand the difference between word processing and desktop publishing tools? Can they use the publishing tools to create posters, leaflets etc? Can they create a presentation using PowerPoint changing the	Scratch: Questions and quizzes Can they use a computer to create basic applications, investigating how different variables can be changed? Can they begin to use software to represent 3D objects or items? Can they explore some simulations and evaluate them? etc? Can they transfer graphics from	Pivot animator/I can Animate 2: Can they use software to create models of 3D objects, landscapes or items? Can they explore a range of increasingly complex simulations, exploring the effect of changing variables and recording the results?



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<p>Sequence</p> <p>Web Address</p> <p>Device</p> <p>Computer</p> <p>Network</p> <p>Execute</p> <p>Input</p> <p>Output</p> <p>Software</p> <p>World wide web</p> <p>Public</p> <p>Private</p> <p>Logical reasoning</p> <p>Repetition</p> <p>Script</p> <p>Variables</p> <p>Digital</p> <p>Footprint</p> <p>Personal</p> <p>Information</p> <p>Block</p> <p>Block Pallet</p> <p>Command</p> <p>Control block</p> <p>Digital content</p> <p>Simulation</p> <p>Sprite</p> <p>Stage</p>	<p>Can they contribute to an online class blog?</p> <p>Can they open a variety of links and use them?</p>	<p>data collected?</p>	<p>create an effective layout?</p> <p>Can I use the spellcheck tool?</p> <p>Can I insert and format a table in a word processing document?</p> <p>Can I change a page layout for a purpose?</p> <p>Can I create hyperlinks within a word document?</p>	<p>layout of slides and adding images and sound?</p> <p>Can they refine and improve work by using spell checker, thesaurus</p> <p>animation using ICT software?</p> <p>Windows movie maker: Photo Stories</p> <p>Can they use a computer to sequence short pieces of music using a small selection of pre-record sounds?</p>	<p>a range of sources and use them in a desktop publishing program?</p>	<p>Can they begin to use software to represent 3D objects or items?</p> <p>Can they explore some simulations and evaluate them?</p> <p>Can they create a stop motion</p> <p>Pivot animator: Movie Soup/ Jelly cam: Animation</p> <p>Can they independently record video for a range of purpose, paying attention to the quality of the video capture?</p> <p>Can they insert sound recordings into a multi- media presentation?</p> <p>Can they choose images and download into a file? Can they capture images using a variety of technology eg webcams, screen capture, scanning, visualizer and internet</p>
	Internet	Data	Word processing	Presentation	Programming	Using and applying
<p>Year 5</p> <p>Vocabulary</p> <p>Costume</p> <p>Page rank</p> <p>Services</p> <p>Firewall</p> <p>Malware</p> <p>Encrypted</p>	<p><u>E-Safety</u></p> <p>Can they understand that copyright exists on most digital images, video and recorded music?</p> <p>Do they know how to report an incident of cyber bullying?</p> <p>Can they identify when emails should not be opened and when an attachment may not be safe?</p> <p>Can they understand that there are means of reporting unpleasant online data e.g. Ceop ?</p> <p>Do they understand the need</p>	<p><u>Excel and spreadsheets</u></p> <p>Can they create their own data collection sheet using data validation?</p> <p>Can they search spreadsheets using symbols =>?</p> <p>Can they create a formula in a spreadsheet and check for accuracy and plausibility?</p> <p>Can they interrogate their data to create graphs and tables which they can copy and paste into other documents?</p> <p>Can they collect live data using</p>		<p><u>Audacity: Radio Station</u></p> <p>Can they create an extended piece of music using pre-recorded samples for a specific audience then evaluate this?</p> <p>Can they edit audio, applying basic effects</p> <p>Can they create an extended piece of music using pre-recorded samples for a specific audience then evaluate this?</p> <p><u>Sketchup: 3d modelling</u></p>	<p><u>Scratch: developing games</u></p> <p>Can they understand that software relies on codes to run and that a range of different coding languages exist?</p> <p>Can they use a range of assisted programing software (e.g Scratch and/or Kodu) to plan, design and create basic software (for example a simple game), which interact with external controllers (e.g. keyboard and/or mouse).</p> <p>Using software can they control</p>	<p><u>Internet research and Webpage design</u></p> <p>Can they collaborate with peers on a project to produce a finished piece to support topic work-</p> <p>Can they contribute/edit/refine contributions to a shared document and understand that all changes are visible?</p> <p>Can they make a home page for a website that contains links to</p>



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	<p>for privacy settings in social networking sites?</p> <p>Can they judge when to answer a question online and when not to?</p> <p>Can they discuss the positive and negative impacts of using ICT?</p> <p>Can they understand that they should not publish other people's picture or tag them on the internet?</p>	<p>data logging equipment and present this data in different ways?</p>		<p>Can they use software to create models of 3D objects, landscapes or items?</p> <p>Can they explore a range of increasingly complex simulations, exploring the effect of changing variables and recording the results?</p>	<p>the movement and responses of different commands on screen?</p> <p>Can they control an on-screen icon using text based controls, and respond to sensors and repeating written algorithms</p> <p>Do they know how to use a range of visual based Programing software (e.g Scratch and Kodu) to plan and design basic software (for example a simple game), controlling the movement and responses of different elements on screen?</p> <p>Flowol: Controlling devices</p> <p>Can they understand that software relies on codes to run and that a range of different coding languages exist?</p> <p>Can they name some? Can they use a range of assisted programing software (e.g Scratch and/or Kodu) to plan, design and create basic software (for example a simple game), which interact with external controllers (e.g. keyboard and/or mouse).</p> <p>Using software can they control the movement and responses of different commands on screen?</p> <p>Can they control an on-screen icon using text based controls, and respond to sensors and repeating written algorithms</p>	<p>other pages?</p>
	Internet	Data	Word processing	Presentation	Programming	Using and applying
Year 6	Website design	Excel: Spreadsheets		Making Music	Scratch: Animated stories	Movie Maker: Film Making
Vocabulary	<p>Can they make a home page for a website that contains links to</p>	<p>Can they identify data error, patterns and sequences? Can</p>		<p>To be able to edit and manipulate sounds using Music Technology</p>	<p>Kodu: programming</p>	<p>Can they create a film for a given audience incorporating a</p>



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<p>Phishing Scammer Hacker 2 step verification</p>	<p>other pages?</p> <p>E-safety</p> <p>Can they recognise the specific dangers associated with online gaming?</p> <p>Can they understand that information found on the internet should be viewed critically?</p> <p>Can they use various sources to double check information found?</p> <p>Can they recognise that some material on the internet is copyright and may not be copied or downloaded?</p> <p>Do they know that content put online is extremely difficult to remove?</p> <p>Can they create a strong password and recognise the need to regularly update them?</p> <p>Can they use and amend their own privacy settings to keep themselves safe on social networking sites?</p> <p>Can they understand that some malicious adults may use varies techniques to make contact and elicit personal information?</p> <p>Can they understand the dangers of chatting or meeting up with an online friend?</p>	<p>they use the formula bar to explore mathematical scenarios. For example, that quick and easy changes can be made to different variables once the spreadsheet is set up?</p>		<p>software (e.g. Garage Band, Audacity)</p> <p>Can they use a range of software to create/manipulate music and sound samples and sequence these?</p>	<p>Can they use a range of visual programing software to plan and design a game? Can they begin to explore text based programing languages and create basic scripts ? Can I Use software to create models of 3D objects, landscapes or items, including creating to scale ? Can they use a range of more complex simulations, exploring the link to 'real life' and the impact of changing variables?</p> <p>LEGO</p>	<p>range of different scenes and carefully selected effects?</p> <p>THIS DOESN'T HAPPEN - THERE IS NO TIME.</p>
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