



BWJPS
Computing Whole School Long Term Plan (1st Year)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>ELG</p> <p>1. Children recognise that a range of technology is used in places such as homes and schools. 2. They select and use technology for particular purposes.</p> <p>Exceeding</p> <p>1. Children find out about and use a range of everyday technology. 2. They select appropriate applications that support an identified need, for example in deciding how best to make a record of a special event in their lives, such as a journey on as steam train.</p>					
Year 1 & 2	<p>Text and Multimedia in ICT/ Sound</p> <ul style="list-style-type: none"> • Word processing skills <ul style="list-style-type: none"> ➢ Can they word process ideas using a keyboard? ➢ Can they use the spacebar, back space, enter, shift and arrow keys? • Presentation skills <ul style="list-style-type: none"> ➢ Can they record a sound and play it back? ➢ <u>Can they record pupils' voices as a voice over?</u> ➢ Can they capture images with a camera? ➢ Can they print out a photograph from a camera with help? • Presentation skills <ul style="list-style-type: none"> ➢ Can they experiment with text, pictures and animation to make a simple slideshow? ➢ Can they word process 	<p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Programming Toys <ul style="list-style-type: none"> ➢ Can they create a simple series of instructions – left and right? ➢ Can they record their routes? ➢ Do they understand forwards, backwards, up and down? ➢ Can they put two instructions together to control a programmable toy? ➢ Can they begin to plan and test a Bee-bot journey? 	<p>Digital Photography</p> <ul style="list-style-type: none"> • Painting <ul style="list-style-type: none"> ➢ To use technology purposefully to create, organise, store, manipulate and retrieve digital content • Computer Art <ul style="list-style-type: none"> ➢ Can they use the shape tools to draw? 	<p>e-communication</p> <ul style="list-style-type: none"> • Email <ul style="list-style-type: none"> ➢ Do they recognise what an email address looks like? ➢ Have they joined in sending a class email? ➢ Can they use the @ key and type and email address? ➢ Can they print out a page from the internet? ➢ Can they send and reply to messages sent by a safe email partner (within school)? 	<p>Searching and sorting information</p> <ul style="list-style-type: none"> • Using the Internet <ul style="list-style-type: none"> ➢ Can they find information on a website? ➢ Can they click links in a website? ➢ Can they print a web page to use as a resource? 	<p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> ➢ Programming with Scratch Jr <ul style="list-style-type: none"> ➢ Can they create a simple series of instructions – left and right? ➢ Can they record their routes? ➢ Do they understand forwards, backwards, up and down? • Programming Turtle Logo and Scratch <ul style="list-style-type: none"> ➢ Can they predict the outcomes of a set of instructions? ➢ Can they use right angle turns? ➢ Can they use repeat commands? ➢ Can they test and amend a set of instructions? ➢ Can they write a simple program and test it? ➢ Can they predict what the outcome of a simple program will be?

BWJPS
Computing Whole School Long Term Plan (1st Year)

	<ul style="list-style-type: none"> ➤ a piece of text? ➤ Can they insert/delete a word using the mouse and arrow keys? ➤ Can they highlight text to change its format (B, U, I)? ➤ <u>Can they record sounds into software and playback?</u> ➤ <u>Can they insert pre-recorded sounds into a presentation?</u> ➤ <u>Can they capture still and moving images?</u> 					
Year 3	<p>Digital Photography</p> <ul style="list-style-type: none"> • Drawing and Desktop Publishing ➤ Use technology purposefully to create, organise, store, manipulate and retrieve digital content. ➤ Can they review images on a camera and delete unwanted images? ➤ Have they experienced downloading images from a camera into files on the computer? ➤ Can they use photo editing software to crop photos and add effects? 	<p>e-communication</p> <ul style="list-style-type: none"> • Email • Blog ➤ Can they use the email address book? ➤ Can they open and send an attachment? ➤ <u>Can they contribute to a class blog?</u> 	<p>Searching and sorting information</p> <ul style="list-style-type: none"> • Branching Databases ➤ Can they input data into a prepared database? ➤ Can they sort and search a database to answer simple questions? ➤ Can they use a branching database? 	<p>Searching and sorting information</p> <ul style="list-style-type: none"> • Internet Research and Communication ➤ Can they find relevant information by browsing a menu? ➤ Can they search for an image, then copy and paste it into a document? ➤ Can they use 'save picture as' to save an image to the computer? ➤ Can they copy and paste text into a document? ➤ Do they begin to use note making skills to decide what text to copy? ➤ <u>Can they search by keyword using a child friendly search engine?</u> ➤ <u>Can they bookmark a page into your favourites?</u> 	<p>Text and Multimedia in ICT</p> <ul style="list-style-type: none"> • Presentation Skills ➤ Can they create a presentation that moves from slide to slide and is aimed at a specific audience? ➤ Can they combine text, images and sounds and show awareness of audience? ➤ Do they know how to manipulate text, underline text, centre text, change font and size and save text to a folder? ➤ Can they manipulate sound when using simple recording story boarding? 	<p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Programming Turtle Logo and Scratch ➤ Can they experiment with variables to control models? ➤ Can they use 90 degrees and 45 degree turns? ➤ Can they give an on-screen robot directional instructions? ➤ Can they draw a square, rectangle and other regular shapes on screen, using commands? ➤ Can they write more complex programs? ➤ <u>Can they use repeat command in logo to create a pattern?</u>
Year 4	<p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Programming Turtle Logo and Scratch 	<p>Text and Multimedia in ICT/ Using the Internet</p> <ul style="list-style-type: none"> • Word processing ➤ Can they use a search 	<p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Scratch: Questions and Quizzes • Programming: Turtle Logo 	<p>Searching and sorting information</p> <ul style="list-style-type: none"> • Spreadsheets ➤ Can they input data into a 	<p>Text and Multimedia in ICT / Sound in ICT</p> <ul style="list-style-type: none"> • Animated PowerPoint ➤ Can they create a 	<p>Digital Photography</p> <ul style="list-style-type: none"> • Photo Stories ➤ Can they capture images using webcams, screen

BWJPS
Computing Whole School Long Term Plan (1st Year)

	<ul style="list-style-type: none"> ➤ Can they experiment with variables to control models? ➤ Can they use 90 degrees and 45 degree turns? ➤ Can they give an on-screen robot directional instructions? ➤ Can they draw a square, rectangle and other regular shapes on screen, using commands? ➤ Can they write more complex programs? ➤ <u>Can they use repeat command in logo to create a pattern?</u> <p>This is the topic from previous year, missed out due to school closure. This is replacing E-communication due to a lot of time spent on emails during Summer term of Y3.</p>	<ul style="list-style-type: none"> ➤ engine to find a specific website? ➤ Can they use note-taking skills to decide which text to copy and paste into a document? ➤ Can they use tabbed browsing to open two or more web pages at the same time? ➤ Can they open a link to a new window? ➤ Can they open a document (PDF) and view it? ➤ Can they use photo editing software to crop photographs and add effects? 	<ul style="list-style-type: none"> ➤ Can they use repeat instructions to draw regular shapes on screen, using commands? ➤ Can they experiment with variables to control models? ➤ Can they make turns specifying the degrees? ➤ Can they give an on-screen robot specific directional instructions that takes them from x to y? ➤ Can they make accurate predictions about the outcome of a program they have written? 	<ul style="list-style-type: none"> ➤ prepared database? ➤ Can they search and sort a database to answer simple questions? ➤ Do they recognise what a spreadsheet is? ➤ Can they use the terms 'cells', 'rows' and 'columns'? ➤ Can they enter data, highlight it and make bar charts? ➤ <u>Can they copy and paste the graph/ bar chart and use it in a WP document?</u> 	<ul style="list-style-type: none"> ➤ lengthy presentation that moves from slide to slide and is aimed at a specific audience? ➤ Can they insert sound recordings into a multi-media PowerPoint? ➤ Do they know how to manipulate text, underline text, centre text, change font and size and save text to a folder? ➤ <u>Can they use animation in their presentation?</u> 	<ul style="list-style-type: none"> ➤ capture, scanning, visualiser and internet? ➤ Can they choose images and download into a file? ➤ Can they download images from the camera into files on the computer? ➤ Can they copy graphics from a range of sources and paste into a desktop publishing program? ➤ <u>Can they use photo editing software to crop photographs and add effects?</u>
<p>Year 5</p>	<p>Searching and sorting information</p> <ul style="list-style-type: none"> • Flowol • Spreadsheets <ul style="list-style-type: none"> ➤ Can they create a formula in a spreadsheet and then check for accuracy and plausibility? ➤ Can they search databases for information using symbols such as =, > or <? ➤ Can they create databases planning the fields, rows and columns? 	<p>e-communication</p> <ul style="list-style-type: none"> • Internet Research & Webpage Design <ul style="list-style-type: none"> ➤ Can they use a search engine using keyword searches? ➤ Can they compare the results of different searches? ➤ Can they decide which sections are appropriate to copy and paste from at least two web pages? ➤ Can they save stored information following simple lines of enquiry? ➤ Can they download a 	<p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Kodu Programming <ul style="list-style-type: none"> ➤ Can they explain how an algorithm works? ➤ Can they detect errors in a program and correct them? ➤ Can they use an ICT program to control a number of events for an external device? ➤ Can they use ICT to measure sound, light or temperature using sensors to interpret the data? ➤ Can they explore 'what if' questions by planning different scenarios for controlled devices? 	<p>Sound in ICT</p> <ul style="list-style-type: none"> • Scratch: Animated Story <p>Can they create a sophisticated multimedia presentation?</p>	<p>Digital Photography</p> <ul style="list-style-type: none"> • Film Making <ul style="list-style-type: none"> ➤ Can they present a film for a specific audience and then adapt the same film for a different audience? 	<p>Text and Multimedia in ICT</p> <ul style="list-style-type: none"> • Newspaper <ul style="list-style-type: none"> ➤ Can they confidently choose the correct page set up option when creating a document? ➤ Can they confidently use text formatting tools, including heading and body text? ➤ Can they use the hanging indent tool to help format work where appropriate (e.g. a play-script?) ➤ <u>Can they incorporate graphics where appropriate, using the most effective text wrapping formats?</u>

BWJPS
Computing Whole School Long Term Plan (1st Year)

	Can they create graphs and tables to be copied and pasted into other documents?	documents and save it to the computer? ➤ Can they make a home page for a website that contains links to other pages? ➤ Can they capture sounds, images and video?	➤ Can they use input from sensors to trigger events? ➤ Can they check and refine a series of instructions?			➤ Can they explore the menu options and experiment with images (colour effects, options, snap to grid, grid settings etc...)? ➤ Can they add special effects to alter the appearance of a graphic? Can they make an information poster using their graphics skills to good effect?
Year 6	<p>e-communication / Using the Internet</p> <ul style="list-style-type: none"> • blog ➤ Can they contribute to discussions online? ➤ Can they use a search engine using keyword searches? ➤ Can they use complex searches using such as '+', 'OR'? ➤ <u>Can they compare the information provided on two tabbed websites looking for bias and perspective?</u> ➤ Can they conduct a video chat with people in another country or organisation? ➤ <u>Can they conduct a video chat with more than one person at a time?</u> 	<p>Searching and sorting information</p> <ul style="list-style-type: none"> • Spreadsheets ➤ Can they collect live data using data logging equipment? ➤ Can they identify data error, patterns and sequences? ➤ Can they use the formulae bar to explore mathematical scenarios? ➤ Can they create their own database and present information from it? 	<p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Kodu Programming ➤ Can they explain how an algorithm works? ➤ Can they detect errors in a program and correct them? ➤ Can they use an ICT program to control a number of events for an external device? ➤ Can they use ICT to measure sound, light or temperature using sensors to interpret the data? ➤ Can they explore 'what if' questions by planning different scenarios for controlled devices? ➤ Can they use input from sensors to trigger events? ➤ Can they check and refine a series of instructions? 	<p>Sound in ICT</p> <ul style="list-style-type: none"> • Scratch: Animated Story ➤ Can they create a sophisticated multimedia presentation? 	<p>Digital Photography</p> <ul style="list-style-type: none"> • Film Making ➤ Can they present a film for a specific audience and then adapt the same film for a different audience? 	<p>Text and Multimedia in ICT</p> <ul style="list-style-type: none"> • Newspaper ➤ Can they confidently choose the correct page set up option when creating a document? ➤ Can they confidently use text formatting tools, including heading and body text? ➤ Can they use the hanging indent tool to help format work where appropriate (e.g. a play-script)? ➤ <u>Can they incorporate graphics where appropriate, using the most effective text wrapping formats?</u> ➤ Can they explore the menu options and experiment with images (colour effects, options, snap to grid, grid settings etc...)? ➤ Can they add special effects to alter the appearance of a graphic? Can they make an information poster using their graphics skills to good effect?