

BWJPS  
Computing Whole School Long Term Plan (1<sup>st</sup> Year)

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

BWJPS  
Computing Whole School Long Term Plan (1<sup>st</sup> Year)

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

BWJPS  
Computing Whole School Long Term Plan (1<sup>st</sup> Year)

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

BWJPS  
Computing Whole School Long Term Plan (1<sup>st</sup> 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?
<b>Year 6</b>	<p><b>e-communication / Using the Internet</b></p> <ul style="list-style-type: none"> <li>• blog</li> <li>➤ Can they contribute to discussions online?</li> <li>➤ Can they use a search engine using keyword searches?</li> <li>➤ Can they use complex searches using such as '+', 'OR'?</li> <li>➤ <u>Can they compare the information provided on two tabbed websites looking for bias and perspective?</u></li> <li>➤ Can they conduct a video chat with people in another country or organisation?</li> <li>➤ <u>Can they conduct a video chat with more than one person at a time?</u></li> </ul>	<p><b>Searching and sorting information</b></p> <ul style="list-style-type: none"> <li>• Spreadsheets</li> <li>➤ Can they collect live data using data logging equipment?</li> <li>➤ Can they identify data error, patterns and sequences?</li> <li>➤ Can they use the formulae bar to explore mathematical scenarios?</li> <li>➤ Can they create their own database and present information from it?</li> </ul>	<p><b>Understanding Instructions and making things happen</b></p> <ul style="list-style-type: none"> <li>• Kodu Programming</li> <li>➤ Can they explain how an algorithm works?</li> <li>➤ Can they detect errors in a program and correct them?</li> <li>➤ Can they use an ICT program to control a number of events for an external device?</li> <li>➤ Can they use ICT to measure sound, light or temperature using sensors to interpret the data?</li> <li>➤ Can they explore 'what if' questions by planning different scenarios for controlled devices?</li> <li>➤ Can they use input from sensors to trigger events?</li> <li>➤ Can they check and refine a series of instructions?</li> </ul>	<p><b>Sound in ICT</b></p> <ul style="list-style-type: none"> <li>• Scratch: Animated Story</li> <li>➤ Can they create a sophisticated multimedia presentation?</li> </ul>	<p><b>Digital Photography</b></p> <ul style="list-style-type: none"> <li>• Film Making</li> <li>➤ Can they present a film for a specific audience and then adapt the same film for a different audience?</li> </ul>	<p><b>Text and Multimedia in ICT</b></p> <ul style="list-style-type: none"> <li>• Newspaper</li> <li>➤ Can they confidently choose the correct page set up option when creating a document?</li> <li>➤ Can they confidently use text formatting tools, including heading and body text?</li> <li>➤ Can they use the hanging indent tool to help format work where appropriate (e.g. a play-script)?</li> <li>➤ <u>Can they incorporate graphics where appropriate, using the most effective text wrapping formats?</u></li> <li>➤ Can they explore the menu options and experiment with images (colour effects, options, snap to grid, grid settings etc...)?</li> <li>➤ 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?</li> </ul>