

BWJPS
Computing Whole School Long Term Plan (Updated July 2018)

| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| 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 a steam train.</p> | | | | | |
| Year 1 | <p>Text and Multimedia in ICT</p> <ul style="list-style-type: none"> • Word processing skills ➤ Can they word process ideas using a keyboard? ➤ Can they use the spacebar, back space, enter, shift and arrow keys? | <p>e-communication</p> <ul style="list-style-type: none"> • Email ➤ 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? | <p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Programming Toys ➤ 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>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> ➤ Programming with Scratch Jr ➤ Can they create a simple series of instructions – left and right? ➤ Can they record their routes? ➤ Do they understand forwards, backwards, up and down? | <p>Digital Photography</p> <ul style="list-style-type: none"> • Painting ➤ To use technology purposefully to create, organise, store, manipulate and retrieve digital content | <p>Sound in ICT/ Digital Photography</p> <ul style="list-style-type: none"> • Animated Stories ➤ Can they record a sound and play it back? ➤ Can they record pupils' voices as a voice over? ➤ Can they capture images with a camera? ➤ Can they print out a photograph from a camera with help? |
| Year 2 | <p>Text and Multimedia in ICT/ Sound</p> <ul style="list-style-type: none"> • Presentation skills ➤ Can they experiment with text, pictures and animation to make a simple slideshow? ➤ Can they word process a piece of text? | <p>Sound in ICT</p> <ul style="list-style-type: none"> • Making Music | <p>Digital Photography</p> <ul style="list-style-type: none"> • Computer Art ➤ Can they use the shape tools to draw? | <p>e-communication</p> <ul style="list-style-type: none"> • Email ➤ 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 ➤ Can they find information on a website? ➤ Can they click links in a website? ➤ Can they print a web | <p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Programming Turtle Logo and Scratch ➤ Can they predict the outcomes of a set of instructions? ➤ Can they use right angle turns? |

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| | <ul style="list-style-type: none"> ➤ Can they insert/delete a word using the mouse and arrow keys? ➤ Can they highlight text to change its format (B, <u>U</u>, <i>I</i>)? ➤ Can they record sounds into software and playback? ➤ Can they insert pre-recorded sounds into a presentation? ➤ Can they capture still and moving images? | | | | page to use as a resource? | <ul style="list-style-type: none"> ➤ 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? |
| 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? ➤ Can they contribute to a class blog? | <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? ➤ Can they search by keyword using a child friendly search engine? ➤ Can they bookmark a page into your favourites? | <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? ➤ Can they use repeat command in logo to create a pattern? |
| Year 4 | <p>e-communication</p> <ul style="list-style-type: none"> • Using discussion boards, blogs, email ➤ Do they appreciate the benefits of ICT to send | <p>Text and Multimedia in ICT/ Using the Internet</p> <ul style="list-style-type: none"> • Word processing ➤ Can they use a search engine to find a specific | <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 prepared database? | <p>Text and Multimedia in ICT / Sound in ICT</p> <ul style="list-style-type: none"> • Animated PowerPoint ➤ Can they create a lengthy presentation | <p>Digital Photography</p> <ul style="list-style-type: none"> • Photo Stories ➤ Can they capture images using webcams, screen capture, scanning, |

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| | <p>messages and to communicate? ➤ Can they use the automatic spell checker to edit spellings?</p> | <p>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?</p> | <p>➤ 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?</p> | <p>➤ 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 WWP document?</u></p> | <p>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></p> | <p>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> |
| <p>Year 5</p> | <p>Searching and sorting information</p> <ul style="list-style-type: none"> • Flowol • Spreadsheets <p>➤ 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? Can they create graphs and tables to be copied and pasted into other documents?</p> | <p>e-communication</p> <ul style="list-style-type: none"> • Internet Research & Webpage Design <p>➤ 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 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?</p> | <p>Text and Multimedia in ICT</p> <ul style="list-style-type: none"> • Word processing and presentation skills <p>➤ Can they use a range of presentation applications? ➤ Can they capture sounds, images and video? ➤ Can they use the word count tool to check the length of a document? ➤ Can they use bullets and numbering tools? ➤ <u>Can they make a multimedia presentation that contains: sound; animation; video and buttons to navigate?</u> ➤ <u>Can they make an information poster using graphics skills to good effect?</u></p> | <p>Understanding Instructions and making things happen</p> <ul style="list-style-type: none"> • Scratch: Developing Games • Game Creator <p>➤ Can they combine sequences of instructions and procedures to turn devices on or off? ➤ Do they understand input and output? ➤ Can they use an ICT program to control an external device that is electrical and/or mechanical? ➤ Can they use ICT to measure sound or light or temperature using sensors? ➤ Can they explore 'What if' questions by playing adventure or quest games? ➤ Can they write programs</p> | <p>Digital Photography</p> <ul style="list-style-type: none"> • Video • Communicating <p>➤ Can they use a range of presentation applications? ➤ Do they consider audience when editing a simple film? ➤ Do they know how to prepare and then present a simple film? ➤ Can they use ICT to record sounds and capture both still and video images? ➤ Can they work on simple film editing? ➤ Can they use instant messaging to communicate with class members? ➤ Can they conduct a video chat with someone elsewhere in the school or in another</p> | <p>Sound in ICT</p> <ul style="list-style-type: none"> • Radio Station <p>➤ Can they listen to streaming audio such as online radio? ➤ Can they download and listen to podcasts? ➤ Can they produce and upload a podcast? ➤ Can they manipulate sounds using Audacity? ➤ Can they select music from open sources and incorporate it into multimedia presentations?</p> |

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| Year 6 | <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>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>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>Sound in ICT</p> <ul style="list-style-type: none"> • Scratch: Animated Story ➤ Can they create a sophisticated multimedia presentation? | <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? |