



Computing at Wolsingham Primary School



Year 1						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Title	Computing Skills Project: Can I create a Morpho Booth animation?	Painting Project: How can I create my own Christmas card using a computer?	Online Safety Project: How can I keep myself safe online? <i>To be taught as an individual unit but also throughout the year and as the need arises.</i>	Word Processing Skills Project: How can I create my own poster using a computer?	Programming Toys Project: How do I get a beebot to move where I want it to?	Photography Project: How can I take an effective photo?
	<p>To use digital media: Be able to log onto a computer or device.</p> <p>Be able to navigate around the screen with a mouse.</p> <p>Be able to independently find and use an app on a tablet or piece of software on a computer.</p>	<p>To use digital media: Be able to navigate around the screen with a mouse.</p> <p>To create something meaningful.</p> <p>Be able to independently find and use an app on a tablet or piece of software on a computer.</p>	<p>To be safe online: Know that they should always ask an adult before using the Internet</p> <p>Know what to do if they are unsure of something they see whilst using the Internet</p> <p>With support from an adult be able to find information on the internet e.g. Swiggle (https://swiggle.org.uk/)</p>	<p>To use digital media: Be able to log onto a computer.</p> <p>Be able to navigate around the screen with a mouse.</p> <p>Be able to independently find and use an app on a tablet.</p> <p>Know how to type text using space bar for separate words to create something meaningful e.g. using Textease Studio, Word or Pages (iPad).</p>	<p>To programme: Know which button on a device represents which action e.g. Bee Bot</p> <p>Know how to program a robot to follow simple sequence of instructions (1-2 turns)</p> <p>Make a simple sequence of instructions / algorithm</p> <p>Be able to make simple predications about an algorithm and a program. The Bee Bot will go....</p> <p>Be able to change (debug) the program to improve the route.</p>	<p>Project – Individual Photographs Take a clear photo of an everyday object. Place your object somewhere with an appropriate background. Take photos in a variety of lightning conditions. Experiment with the angle of photo. Straighten, rotate and crop photos. Adjust focus and exposure before you take the photo (drag finger up and down to adjust brightness). Review photos and delete those that are not quality.</p>
Note – although photography unit is designated in Summer 2, basic photography skills to be addressed at start of year and throughout.						
Year 2						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Title	Presentation skills Project: Create a poster for a purpose.	Computer Art Project: Draw or modify my own picture to add to my own poster (must be for a purpose)	Using the Internet Project: How do I research on the internet safely? <i>To be taught as an individual unit but also throughout the year and as the need arises.</i>	Programming Project: Move a BeeBot and then a Probot around a maze.	Programming using computer software Project: What is an algorithm? (ALEX, LEGO, One hour of Code).	Photography Project: How can I take a good portrait?

	<p>To use digital media: Be able to confidently use pointing device.</p> <p>Know how to type and format text including basic punctuation and capital letters using a variety of software.</p> <p>Be able to add and create simple images.</p> <p>Be able to combine simple text and graphics using appropriate software for purpose.</p> <p>Be able to save, retrieve and print work e.g. Create a poster in Word, save it, amend it and print it.</p>	<p>To use digital media: Be able to confidently use pointing device.</p> <p>Be able to add and create simple images.</p> <p>Be able to combine simple text and graphics using appropriate software for purpose.</p> <p>Be able to save, retrieve and print work e.g. Create a poster in Word, save it, amend it and print it.</p>	<p>To be safe online: Know devices that enable direct communication between people through images and text.</p> <p>Know what personal information is and that they should never share this with anyone they don't know.</p> <p>Know that they should tell a trusted adult if they are upset or worried about anything on a device.</p> <p>With support, be able to use a safe search engine.</p>	<p>To programme: Begin to use block programming e.g. Scratch Junior (Alex, Daisy Dino) to complete a simple program.</p> <p>Be able to debug more complex problems e.g. a route on a Bee Bot / Blue Bot/Probot/Alex/Logo etc... maze.</p>	<p>To programme: Know how to program a robot to achieve set goal (sequence of 6-7 instructions: maze, point collecting).</p> <p>Be able to debug more complex problems e.g. a route on a Bee Bot / Blue Bot/Probot/Alex/Logo etc... maze.</p>	<p>Project - Portraits Take a clear portrait. Take a selfie from a different angle. Use timers to take portraits. Take a clear photo of someone with a quiet background and experiment with lighting. Use the environment to frame a subject. Apply filters to enhance the mood of the photograph Experiment with backlighting to create a silhouette. Use mark-up tools to retouch photos Use filters to make portrait look like it's from the past.</p>
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Year 3/4 A

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Title	Word Processing/Publisher Project: Create a leaflet based on a topic that you are studying.	Programming with Scratch Project: Create a spirograph.	Online Safety Project: Know how to stay safe online and how to research with increased accuracy. <i>To be taught as an individual unit but also throughout the year and as the need arises.</i>	Presentation skills Project: Design an iMovie or PowerPoint/Keynote to be presented to the class.	Programming with Kodu Project: Create my own world and program controls to navigate a sprite on a set path.	Photography Project: Can I take an effective landscape photograph?
	<p>To use digital media: Be able to log in to computer system as themselves and can find their documents (personal drive)</p> <p>Know how to open shared documents and pictures.</p> <p>Be able to create a meaningful document that contains both pictures and text.</p>	<p>To Programme: Be able to use a block program (Scratch Junior, Scratch, Microbit Blocks) to make a simple programme using sequencing and timing.</p> <p>Inputs sets of instructions according to programming language and environment (Logo, Scratch Jnr, Microbit etc..)</p>	<p>To be safe online: Use a simple password.</p> <p>Use a Search engine to find information given key words</p> <p>Know which websites are useful and begin to understand that all might not be trustworthy</p> <p>Know that pictures and text shared on-line can end up with strangers</p>	<p>To use digital media: Be able to log in to computer system as themselves and can find their documents (personal drive)</p> <p>Know how to sequence and add to slides to make a simple presentation using PowerPoint (laptop), Keynote (iPad) or iMovie (iPad).</p> <p>Be able to create a meaningful document that</p>	<p>To programme: Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs.</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes.</p>	<p>Project - Landscape Use a grid to create landscape photos.</p> <p>Use the rule of thirds to draw attention to a focal point e.g. a path going into the distance.</p> <p>Apply filters to create a mood.</p> <p>Take horizontal and vertical panoramic photos.</p> <p>Add a person or object into a scene to show scale.</p>

	<p>Be able to save a document in a shared folder and retrieve this to continue working on it (computer) or shared through Airdrop (iPad).</p> <p>Be able to organise their personal folder effectively for instance by organising work into folders for each year at school</p> <p>Know how to change font size and style; include shapes and backgrounds and to use the Spellcheck function</p> <p>To produce a piece of work related to other learning for instance in English or the Humanities.</p>	<p>Use a program Logo or Scratch to draw regular 2D shapes</p> <p>Independently be able to debug basic mistakes (This skill will be gained from repeated programming tasks)</p> <p>Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs.</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes.</p> <p>Know how to break sets of instructions into short steps to achieve goal.</p>	<p>Reliably know what to do if they are exposed to unpleasant materials on any device (Covered by Internet Legends – above)</p> <p>Know that having a balance of online and offline activities is important.</p> <p>Reliably uses a more complex password to access resources.</p> <p>Know what the key words are to enter into a Search engine to find information they want.</p> <p>Can select useful websites from the results of a search.</p>	<p>contains both pictures and text.</p> <p>To be able to use sequence to create an effective presentation or video using PowerPoint (laptop), Keynote (iPad) or iMovie (iPad).</p> <p>Pupils to sequence key ideas before delivering presentation using Powerpoint (laptop) or Keynote (iPad).</p> <p>Be able to deliver a simple presentation to their peers (as above).</p>	<p>Know how to break sets of instructions into short steps to achieve goal.</p>	<p>Project: Create a story from one photograph thinking about subjects, scenes, lighting and mood effect.</p>
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Year 3/4 B						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Title	<p>Word Processing/Publisher Project: Create a brochure based on a topic that you are studying.</p>	<p>Programming with Scratch Project: Create a simple animation.</p>	<p>Online Safety Project: Know how to stay safe online and how to research with increased accuracy.</p> <p><i>To be taught as an individual unit but also throughout the year and as the need arises.</i></p>	<p>Presentation skills Project: Design an iMovie or PowerPoint/Keynote to be presented to the class.</p>	<p>Programming with Kodu Project: Create my own world and program controls to navigate a sprite on a set path.</p>	<p>Photography Project: Can I take a photo which will tell a story?</p>

	<p>To use digital media: Be able to log in to computer system as themselves and can find their documents (personal drive)</p> <p>Know how to open shared documents and pictures.</p> <p>Be able to create a meaningful document that contains both pictures and text.</p> <p>Be able to save a document in a shared folder and retrieve this to continue working on it (computer) or shared through Airdrop (iPad).</p> <p>Be able to organise their personal folder effectively for instance by organising work into folders for each year at school</p> <p>Know how to change font size and style; include shapes and backgrounds and to use the Spellcheck function</p> <p>To produce a piece of work related to other learning for instance in English or the Humanities.</p>	<p>To Programme: Be able to use a block program (Scratch Junior, Scratch, Microbit Blocks) to make a simple programme using sequencing and timing.</p> <p>Inputs sets of instructions according to programming language and environment (Logo, Scratch Jnr, Microbit etc..)</p> <p>Use a program Logo or Scratch to draw regular 2D shapes</p> <p>Independently be able to debug basic mistakes (<i>This skill will be gained from repeated programming tasks</i>)</p> <p>Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs.</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes.</p> <p>Know how to break sets of instructions into short steps to achieve goal.</p>	<p>To be safe online: Use a simple password.</p> <p>Use a Search engine to find information given key words</p> <p>Know which websites are useful and begin to understand that all might not be trustworthy</p> <p>Know that pictures and text shared on-line can end up with strangers</p> <p>Reliably know what to do if they are exposed to unpleasant materials on any device (<i>Covered by Internet Legends – above</i>)</p> <p>Know that having a balance of online and offline activities is important.</p> <p>Reliably uses a more complex password to access resources.</p> <p>Know what the key words are to enter into a Search engine to find information they want.</p> <p>Can select useful websites from the results of a search.</p>	<p>To use digital media: Be able to log in to computer system as themselves and can find their documents (personal drive)</p> <p>Know how to sequence and add to slides to make a simple presentation using PowerPoint (laptop), Keynote (iPad) or iMovie (iPad).</p> <p>Be able to create a meaningful document that contains both pictures and text.</p> <p>To be able to use sequence to create an effective presentation or video using PowerPoint (laptop), Keynote (iPad) or iMovie (iPad).</p> <p>Pupils to sequence key ideas before delivering presentation using Powerpoint (laptop) or Keynote (iPad).</p> <p>Be able to deliver a simple presentation to their peers (as above).</p>	<p>To programme: Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs.</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes.</p> <p>Know how to break sets of instructions into short steps to achieve goal.</p>	<p>Project - Landscape Use a grid to create landscape photos.</p> <p>Use the rule of thirds to draw attention to a focal point e.g. a path going into the distance. Apply filters to create a mood.</p> <p>Take horizontal and vertical panoramic photos.</p> <p>Add a person or object into a scene to show scale.</p> <p>Project: Create a story from one photograph thinking about subjects, scenes, lighting and mood effect.</p>
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Year 4/5 A

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Title	<p>Word Processing skills Project: Create a range of media using appropriate software independently chosen by them.</p>	<p>Programming with Scratch Project: Create a game world which includes character and background changes – Maze game.</p>	<p>Online Safety Project: How can we keep ourselves safe online?</p> <p><i>To be taught as an individual unit but also throughout the year and as the need arises.</i></p>	<p>Spreadsheets Project: Create a spreadsheet to answer questions.</p>	<p>Programming with Kodu Project: Produce a working game with a timer variable and a points counter.</p>	<p>Photography Project: Can I create my own gif?</p>

	<p>To use digital media: Be able to save a document in a shared folder and retrieve this to continue working on it (computer) or shared through Airdrop (iPad).</p> <p>Be able to organise their personal folder effectively for instance by organising work into folders for each year at school</p> <p>Know how to change font size and style; include shapes and backgrounds and to use the Spellcheck function</p> <p>To produce a piece of work related to other learning for instance in English or the Humanities.</p> <p>To be able to share their work from their personal folder to work collaboratively with others.</p> <p>Know how to use software to create an effective poster or leaflet.</p> <p>Be able to select the best program for the task.</p>	<p>To programme: Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs (Logo/Scratch).</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes. <i>Gold shape has example code that children can modify and change (see link below)</i></p> <p>Know how to break sets of instructions into short steps to achieve a goal. e.g. drawing repeated squares to make a pattern.</p> <p>Use customisation to change a working program to change its effect, for instance backgrounds and sprite in scratch</p> <p>Uses loops to achieve goals</p>	<p>To be safe online: Know the risks posed to them by using Social Media, including understanding that people may not be who they say they are.</p> <p>Know that it is irresponsible to share images of friends on-line without their permission.</p> <p>Know how to report concerns on-line.</p> <p>Know that a balance of online and offline activities is important to maintain good health.</p> <p>Effectively use a search engine to find multiple criteria using AND/OR to refine searches.</p> <p>Know how to compare information from different websites and know that some sites may show bias.</p>	<p>To use digital media: Using software know how to add data into a prepared spreadsheet to answer simple questions.</p>	<p>To programme: Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs.</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes.</p> <p>Know how to break sets of instructions into short steps to achieve goal.</p> <p>Use customisation to change a working program to change its effect, for instance backgrounds and sprite in scratch</p> <p>Uses loops to achieve goals</p> <p>Uses variables, conditional sentences (when/then), external triggers and loops to achieve set goals</p>	<p>Project - Action Take and select photos from burst mode showing action. Animate your photos using the Live Photos effect. Create a loop effect in a photo using a Live Photo. Create a bounce effect photo. Apply the long exposure effect to a scene to add appropriate blur.</p> <p>Project: Use the Burst mode to capture a picture in motion. Add filters and effects until you are happy with your result.</p>
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Note – although photography unit is designated in Summer 2, basic photography skills to be addressed at start of year and throughout.

Year 4/5 B

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Title	<p>Word Processing skills Project: Create a range of media using appropriate software independently chosen by them.</p>	<p>Programming with Scratch Project: Create a game world which includes character and background changes – Flappy Birds game.</p>	<p>Online Safety Project: How can we keep ourselves safe online?</p> <p><i>To be taught as an individual unit but also throughout the year and as the need arises.</i></p>	<p>Spreadsheets Project: Create a spreadsheet to answer questions.</p>	<p>Programming with Kodu Project: Produce a working game with a timer variable and a points counter.</p>	<p>Photography Project: Can I create my own gif?</p>
	<p>To use digital media: Be able to save a document in a shared folder and</p>	<p>To programme:</p>	<p>To be safe online: Know the risks posed to them by using Social Media,</p>	<p>To use digital media: Using software know how to add data into a prepared</p>	<p>To programme:</p>	<p>Project - Action</p>

	<p>retrieve this to continue working on it (computer) or shared through Airdrop (iPad).</p> <p>Be able to organise their personal folder effectively for instance by organising work into folders for each year at school</p> <p>Know how to change font size and style; include shapes and backgrounds and to use the Spellcheck function</p> <p>To produce a piece of work related to other learning for instance in English or the Humanities.</p> <p>To be able to share their work from their personal folder to work collaboratively with others.</p> <p>Know how to use software to create an effective poster or leaflet.</p> <p>Be able to select the best program for the task.</p>	<p>Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs (Logo/Scratch).</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes. <i>Gold shape has example code that children can modify and change (see link below)</i></p> <p>Know how to break sets of instructions into short steps to achieve a goal. e.g. drawing repeated squares to make a pattern.</p> <p>Use customisation to change a working program to change its effect, for instance backgrounds and sprite in scratch</p> <p>Uses loops to achieve goals</p>	<p>including understanding that people may not be who they say they are.</p> <p>Know that it is irresponsible to share images of friends on-line without their permission.</p> <p>Know how to report concerns on-line.</p> <p>Know that a balance of online and offline activities is important to maintain good health.</p> <p>Effectively use a search engine to find multiple criteria using AND/OR to refine searches.</p> <p>Know how to compare information from different websites and know that some sites may show bias.</p>	<p>spreadsheet to answer simple questions.</p>	<p>Be able to use a program to sequence, use conditionals and use a variety of inputs and outputs.</p> <p>Be able to explain how their program works.</p> <p>Be able to modify their program and be able to predict the effects of any changes.</p> <p>Know how to break sets of instructions into short steps to achieve goal.</p> <p>Use customisation to change a working program to change its effect, for instance backgrounds and sprite in scratch</p> <p>Uses loops to achieve goals</p> <p>Uses variables, conditional sentences (when/then), external triggers and loops to achieve set goals</p>	<p>Take and select photos from burst mode showing action.</p> <p>Animate your photos using the Live Photos effect.</p> <p>Create a loop effect in a photo using a Live Photo.</p> <p>Create a bounce effect photo.</p> <p>Apply the long exposure effect to a scene to add appropriate blur.</p> <p>Project: Use the Burst mode to capture a picture in motion. Add filters and effects until you are happy with your result.</p>
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Year 6						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Title	Word Processing Skills Project: Create a presentation/key facts handout for a topic e.g. WWI using a platform of their choice.	Graphics - Photo Editing Project: Create an edited photograph. <i>(Use to explain that images we see in the real world are often distortions of reality – link to celebs)</i>	Online safety Project: How can we keep ourselves safe on social media? <i>To be taught as an individual unit but also throughout the year and as the need arises.</i>	Programming with Crumble Project: Produce a working programme which achieves a task e.g. traffic lights/ burglar alarm	Film making Project: Create a mini-movie using moving animation. (Could be a video for end of year).	Photography Project: Create a portrait collage on keynote with a range of photos.
	To use digital media: Know how to use the main features of office software to produce suitable	To use digital media: Know how to edit a picture e.g. Paint.net	To be safe online: Know how to reduce the risks posed by using Social Media by managing their	To programme: Use conditional sentences	To use digital media: To create and sequence a video, add sound effects,	Project – Collage and Animation

	<p>documents and presentations for an audience e.g. Microsoft Office or Apple suite. Children to have freedom to choose an appropriate one.</p>	<p>Be able to use layers, add filters, select areas to modify, add text or other appropriate content.</p>	<p>friends lists and privacy settings.</p> <p>Know that having a healthy balance of online and offline activities is important for health.</p> <p>Know that it is illegal to post or view 'rude' images of children.</p> <p>Know that hacking or misusing someone else's account is illegal.</p> <p>Know that search results can be manipulated by sponsorship and advertising.</p> <p>Know how to validate information found through searches by checking more than one source.</p> <p>Know that some news is 'fake.' http://fakenews.lgfl.net</p>	<p>(when/then) to program objects.</p> <p>As above but use mathematical expressions when constructing conditionals e.g. (If loops >5 then...).</p> <p>Be able to explain what a program might do and accurately predict the effect of changes.</p>	<p>transitions and title/subtitles.</p> <p>iMovie – much harder in Windows software.</p> <p>To be able to use two or more programmes to create a final piece of work. (e.g., edit a picture before inserting into a document).</p>	<p>Build a single composition with multiple photos and other graphic elements. Hide parts of photos using Instant Alpha. Crop, mask, edit and layer photos. Take photos of letters in the environment and put them together in a keynote presentation to create a collage.</p>
<p>Note – although photography unit is designated in Summer 2, basic photography skills to be addressed at start of year and throughout.</p>						