



Year 1		Subject Computing	
Autumn 1	Spring 1	Summer 1	
<p style="text-align: center;"><u>To Code- Motion</u></p> <p>Control motion by specifying the number of steps to travel, direction and turn.</p> <p>Create a simple series of instructions - left and right Record their routes Understand forwards, backwards, up and down Put two instructions together to control a programmable toy Begin to plan and test a Beebot journey</p>	<p style="text-align: center;"><u>To Record</u></p> <p>Capture images with a camera/iPad Print out a photograph from a camera with help Record a sound and play it back (Link to Computing- photographing plants and animals)</p> <p style="text-align: center;"><u>To connect</u></p> <p>Participate in class social media accounts. To know that there are risks associated with being online</p>	<p style="text-align: center;"><u>To communicate</u></p> <p>Use a range of applications and devices in order to communicate ideas, work and messages. Recognise what an email address looks like Join in sending a class email Use the @ key and type an email address</p> <p style="text-align: center;"><u>To connect</u></p> <p>Participate in class social media accounts. To know that there are risks associated with being online</p>	
Autumn 2	Spring 2	Summer 2	
<p style="text-align: center;"><u>To code</u></p> <p>Purple Mash – chimp Looks Add text strings, show and hide objects and change the features of an object. Sound Select sounds and control when they are heard, their duration and volume.</p> <p style="text-align: center;"><u>To connect</u></p> <p>Participate in class social media accounts.</p>	<p style="text-align: center;"><u>To collect</u></p> <p>Use simple databases to record information in areas across the curriculum.</p> <p>Enter information into a template to make a graph Talk about the results shown on a graph</p>	<p style="text-align: center;"><u>To Present</u></p> <p>Word process ideas using a keyboard Use the spacebar, back space, enter, shift and arrow keys Print out a page from the internet</p>	



Year 2		Subject Computing	
Autumn 1	Spring 1	Summer 1	
<p style="text-align: center;"><u>E-Safety</u></p> <p>To know that there are risks associated with being online</p> <p>Know that personal information should not be shared online</p> <p>Know they must tell a trusted adult immediately if anyone tries to meet them via the internet</p> <p>Understand the different methods of communication (e.g. email, online forums etc)</p> <p>Know you should only open email from a known source</p>	<p style="text-align: center;"><u>To Create</u></p> <p>Control when drawings appear and set the pen colour, size and shape</p> <p>Events</p> <p>Specify user inputs (such as clicks) to control events.</p> <p>Control</p> <p>Specify the nature of events (such as a single event or a loop).</p> <p>Sensing</p> <p>Create conditions for actions by waiting for a user input (such as responses to questions like: What is your name?).</p>	<p style="text-align: center;"><u>To communicate</u></p> <p>Use a range of applications and devices in order to communicate ideas, work and messages.</p> <p>Recognise what an email address looks like</p> <p>Join in sending a class email</p> <p>Use the @ key and type an email address</p> <p style="text-align: center;"><u>To connect</u></p> <p>Participate in class social media accounts.</p> <p>To know that there are risks associated with being online</p>	
Autumn 2	Spring 2	Summer 2	
<p style="text-align: center;"><u>To code</u></p> <p>Purple Mash – chimp</p> <p>CONSOLIDATE y1</p> <p>Looks</p> <p>Add text strings, show and hide objects and change the features of an object.</p> <p>Sound</p> <p>Select sounds and control when they are heard, their duration and volume.</p> <p>Motion</p> <p>Control motion by specifying the number of steps to travel, direction and turn.</p> <p>use right angle turns, use repeat commands, test a set of instructions.</p> <p>Predict what the outcome of a simple program will be.</p>	<p style="text-align: center;"><u>To collect</u></p> <p>Use simple databases to record information in areas across the curriculum.</p> <p>Find information on a website</p> <p>Click links in a website</p> <p>Print a web page to use as a resource</p> <p>Experiment with text, pictures and animation to make a simple slide show</p> <p>Know that bookmarking is a way to find safe sites again quickly</p> <p>Begin to evaluate websites and know that everything on the internet is not true</p> <p>Know that it is not always possible to copy some text and pictures from the internet</p>	<p style="text-align: center;"><u>To Present</u></p> <p>Word process a piece of text insert/delete a word using the mouse and arrow keys</p> <p>Highlight text to change its format (B, U, I)</p> <p>Experiment with text, pictures and animation to make a simple slide show</p>	



Year 3		Subject Computing	
Autumn 1		Spring 1	
<p style="text-align: center;"><u>E-Safety</u></p> <p>Understand the need for rules to keep them safe when exchanging learning and ideas online</p> <p>Understand the need for caution when using an internet search for images and what to do if they find an unsuitable image</p> <p>Understand the need to keep personal information and passwords private</p> <p>Understand that if they make personal information available online it may be seen and used by others</p> <p>Know how to respond if asked for personal information or feel unsafe about content of a message</p> <p>Recognise that cyber bullying is unacceptable and will be sanctioned in line with the school's policy</p> <p>Know how to report an incident of cyber bullying</p> <p>Know the difference between online communication tools used in school and those used at home</p> <p>Understand the need to develop an alias for some public online use</p> <p>Understand that the outcome of internet searches at home may be different than at school</p>		<p style="text-align: center;"><u>To Connect</u></p> <p>Purple Mash email and Class blog</p> <p>Contribute to blogs that are moderated by teachers.</p> <p>Give examples of the risks posed by online communications.</p> <p>Understand that comments made online that are hurtful or offensive are the same as bullying.</p>	
Autumn 2		Spring 2	
<p style="text-align: center;"><u>To Code</u></p> <p>Purple Mash – chimp experiment with variables to control models</p> <p>Use 90 degree and 45 degree turns</p> <p>Give an on-screen robot directional instructions</p> <p>Draw a square, rectangle and other regular shapes on screen, using commands</p>		<p style="text-align: center;"><u>To Collect</u></p> <p>Devise and construct databases using applications designed for this purpose in areas across the curriculum.</p> <p>Begin to use note making skills to decide what text to copy</p>	
		Summer 1	
		<p style="text-align: center;"><u>To Communicate</u></p> <p>Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally.</p> <p>Begin to identify when emails should not be opened and when an attachment may not be safe</p> <p>Explain how to use email safely</p>	
		Summer 2	
		<p style="text-align: center;"><u>To Present</u></p> <p>Create a presentation that moves from slide to slide and is aimed at a specific audience</p> <p>Combine text, images and sounds and show awareness of audience</p> <p>Know how to manipulate text, underline text, centre text, change font and size and save text to a folder</p>	



<p>Begin to write more complex programs .</p>	<p>Recognise that information on the internet may not be accurate or reliable and may be used for bias, manipulation or persuasion</p> <p>Understand that the internet contains fact, fiction and opinion and begin to distinguish between them</p> <p>Use strategies to verify information, e.g. cross-checking</p> <p>Use different search engines</p> <p>Understand that copyright exists on most digital images, video and recorded music</p>	
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<div style="display: flex; justify-content: space-between;"> Year 4 Subject Computing </div>		
<p style="text-align: center;">Autumn 1</p>	<p style="text-align: center;">Spring 1</p>	<p style="text-align: center;">Summer 1</p>
<p style="text-align: center;"><u>E-Safety</u></p> <p>Understand the need for rules to keep them safe when exchanging learning and ideas online</p> <p>Understand the need for caution when using an internet search for images and what to do if they find an unsuitable image</p> <p>Understand the need to keep personal information and passwords private</p> <p>Understand that if they make personal information available online it may be seen and used by others</p> <p>Know how to respond if asked for personal information or feel unsafe about content of a message</p> <p>Recognise that cyber bullying is unacceptable and will be sanctioned in line with the school's policy</p> <p>Know how to report an incident of cyber bullying</p>	<p style="text-align: center;"><u>To Connect</u></p> <p>Purple Mash email and Class blog</p> <p>Contribute to blogs that are moderated by teachers.</p> <p>Give examples of the risks posed by online communications.</p> <p>Understand that comments made online that are hurtful or offensive are the same as bullying.</p>	<p style="text-align: center;"><u>To communicate</u></p> <p>Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally.</p> <p>Identify when emails should not be opened and when an attachment may not be safe</p> <p>Explain how to use email safely</p>



<p>Know the difference between online communication tools used in school and those used at home Understand the need to develop an alias for some public online use Understand that the outcome of internet searches at home may be different than at school</p>		
<p>Autumn 2</p>	<p>Spring 2</p>	<p>Summer 2</p>
<p><u>To Code</u> Purple Mash – chimp & gibbon experiment with variables to control models and images Use 90 degree and 45 degree turns give an on-screen robot directional instructions draw a square, rectangle and other regular shapes on screen, using commands Begin to write more complex programs</p>	<p><u>To collect</u> Devise and construct databases using applications designed for this purpose in areas across the curriculum. Understand the term ‘copyright’. Understand how online services work. Input data into a prepared database sort and search a database to answer simple questions. Use a branching database Recognise the difference between the work of others which has been copied (plagiarism) and restructuring and re-presenting materials in ways which are unique and new Use strategies to verify information, e.g. cross-checking Understand that copyright exists on most digital images, video and recorded music</p>	<p><u>To Present</u> Create a presentation that moves from slide to slide and is aimed at a specific audience Combine text, images and sounds and show awareness of audience Know how to manipulate text, underline text, centre text, change font and size and save text to a folder <u>To Code</u> Purple Mash – chimp & gibbon</p>



Year 5			Subject Computing		
Autumn 1		Spring 1		Summer 1	
<p><u>E-Safety</u></p> <p>Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.</p> <p>Understand the effect of online comments and show responsibility and sensitivity when online.</p> <p>Choose the most suitable applications and devices for the purposes of communication.</p> <p>Collaborate with others online on sites approved and moderated by teachers. Purple Mash email Class Blogs</p> <p>Conduct a video chat with people in another country or organisation(if possible?)</p>		<p><u>To Connect</u></p> <p>Upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation.</p> <p>Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder.</p>		<p><u>To Code</u></p> <p>Gorilla & Gibbon Purple Mash</p> <ul style="list-style-type: none"> • Combine the use of pens with movement to create interesting effects. • Understand how simple networks are set up and used. 	
Autumn 2		Spring 2		Summer 2	



<p style="text-align: center;"><u>To Code</u></p> <p>Set IF conditions for movements. Specify types of rotation giving the number of degrees.</p> <p>Change the position of objects between screen layers (send to back, bring to front).</p> <p>Understand the effect of online comments and show responsibility and sensitivity when online.</p>	<p style="text-align: center;"><u>To collect</u></p> <p>Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner.</p> <p>Add special effects to alter the appearance of a graphic</p> <p>'save as' gif or i peg. wherever possible to make the file size smaller (for emailing or downloading)</p> <p>Make an information poster using their graphics skills to good effect</p>	<p style="text-align: center;"><u>To Code</u></p> <p>Gorilla & Gibbon Purple Mash</p> <p>Explain how an algorithm works</p> <p>Detect errors in a program and correct them</p> <p>Use an ICT program to control a number of events for an external device</p> <p>Check and refine a series of instructions</p>
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Year 6		Subject Computing	
Autumn 1	Spring 1	Summer 1	
<p style="text-align: center;"><u>E-Safety</u></p> <p>Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.</p> <p>Understand the effect of online comments and show responsibility and sensitivity when online.</p> <p>Understand how simple networks are set up and used.</p> <p>Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder.</p>	<p style="text-align: center;"><u>To Code</u></p> <p>Use a range of sensing tools (including proximity, user inputs, loudness and mouse position) to control events or actions</p> <p>Use ICT to measure sound, light or temperature using sensors and interpret the data</p> <p>Use input from sensors to trigger events</p> <p>Use lists to create a set of variables</p>	<p style="text-align: center;"><u>To Code</u></p> <p>Gorilla & Gibbon Purple Mash</p> <p>Explain how an algorithm works</p> <p>Detect errors in a program and correct them</p> <p>Use an ICT program to control a number of events for an external device</p> <p>check and refine a series of instructions</p>	



Use many of the advanced features in order to create high quality, professional or efficient communications. conduct a video chat with people in another country or organisation?

Autumn 2	Spring 2	Summer 2
<p style="text-align: center;"><u>To Code</u></p> <p>Use IF THEN ELSE conditions to control events or objects. Explore 'what if' questions by planning different scenarios for controlled devices</p> <p>Set events to control other events by 'broadcasting' information as a trigger</p>	<p style="text-align: center;"><u>To Collect</u></p> <p>Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner. Explore the menu options and experiment with images (colour effects, options, snap to grid, grid settings etc.)</p> <p>Add special effects to alter the appearance of a graphic</p> <p>'save as' gif or i peg. wherever possible to make the file size smaller (for emailing or downloading)</p> <p>Make an information poster using their graphics skills to good effect</p>	<p style="text-align: center;"><u>To Present</u></p> <p>Present a film for a specific audience and then adapt same film for a different audience.</p> <p>Use stop motion animation.</p>