



## Computing Long Term Planning Class 1 - 2019-2020

Term	Area	National Curriculum Objectives	Key skills	Programs / resources
Autumn 1	To Communicate	To use technology purposefully to create, organise, store, manipulate and retrieve digital content	<ul style="list-style-type: none"> <li>• Use the keyboard or a word bank on my device to enter text</li> <li>• Use technology to present ideas</li> <li>• Be creative with different technology tools</li> </ul>	<ul style="list-style-type: none"> <li>• Purple Mash – 2Paint, 2Create a Story</li> <li>• Paint Software</li> <li>• PowerPoint</li> <li>• Microsoft Word</li> <li>• iPad – voice recorder, camera</li> </ul>
Autumn 2	To Code	<p>To understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</p> <p>To use logical reasoning to predict the behaviour of simple programs</p> <p>To create and debug simple programs</p>	<ul style="list-style-type: none"> <li>• Begin to use software/apps to create movement and patterns on screen</li> <li>• Begin to predict what will happen for a short sequence of instructions</li> <li>• Describe what happens when pressing buttons on a robot</li> <li>• Give instructions to a friend and follow their instructions to move around</li> </ul>	<ul style="list-style-type: none"> <li>• BeeBots &amp; mats (make own/download from Twinkl)</li> <li>• Applications: Kodable, Daisy the Dinosaur</li> <li>• Purplemash- 2Go racing track</li> </ul>



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Spring 1	To Connect  February E-safety month	To use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	<ul style="list-style-type: none"> <li>• Follow sensible e-safety rules</li> <li>• Keep passwords private</li> <li>• Tell an adult when something unexpected or worrying happens online</li> <li>• Talk about why it's important to be kind and polite</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="http://www.kidsmart.org.uk/teachers/ks1/readsmartie.aspx">http://www.kidsmart.org.uk/teachers/ks1/readsmartie.aspx</a></li> <li>• <a href="http://www.safesearchkids.com">www.safesearchkids.com</a></li> <li>• <a href="http://www.primaryresources.co.uk/online/internet.swf">http://www.primaryresources.co.uk/online/internet.swf</a></li> <li>• <a href="http://www.digital-literacy.org.uk/Curriculum-Overview.aspx#yr1">http://www.digital-literacy.org.uk/Curriculum-Overview.aspx#yr1</a></li> <li>• <a href="http://www.everyschool.co.uk/i.c.t.-key-stage-1-internet-safety.html">http://www.everyschool.co.uk/i.c.t.-key-stage-1-internet-safety.html</a></li> <li>• <a href="https://www.thinkuknow.co.uk/5_7/">https://www.thinkuknow.co.uk/5_7/</a> Lee &amp; Kim's Adventures.</li> <li>• <a href="https://www.thinkuknow.co.uk/5_7/hectorsworld/">https://www.thinkuknow.co.uk/5_7/hectorsworld/</a></li> <li>• Purple Mash e-safety posters</li> </ul>
Spring 2	To Collect	To use technology purposefully to create, organise, store, manipulate and retrieve digital content  To recognise common uses of information technology beyond school	<ul style="list-style-type: none"> <li>• Add information to a pictogram and talk about findings</li> <li>• Talk about different ways information can be shown</li> <li>• Use technology to collect information</li> <li>• Sort different kinds of information and present it to others</li> </ul>	<ul style="list-style-type: none"> <li>• Purplemash – 2Graph 2 Count</li> <li>• Applications: Teaching Graph, Pic Collage</li> <li>• <a href="http://www.topmarks.co.uk/Interactive.aspx?cat=18">http://www.topmarks.co.uk/Interactive.aspx?cat=18</a></li> <li>• <a href="http://primaryschoolict.com/pictograph/">http://primaryschoolict.com/pictograph/</a></li> <li>• iPads/digital cameras</li> <li>• Digital microscope</li> </ul>
Summer 1	To Code	To understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	<ul style="list-style-type: none"> <li>• Describe what actions are needed to make something happen and begin to use the word 'algorithm'.</li> <li>• Begin to use software/apps to</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="http://www.pivotanimator.net">http://www.pivotanimator.net</a></li> <li>• Scratch</li> <li>• Purple Mash (2Code, 2Go)</li> <li>• LOGO</li> <li>• Beebots</li> </ul>



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		<p>To use logical reasoning to predict the behaviour of simple programs</p> <p>To create and debug simple programs</p>	<p>create movements and patterns on a screen</p>	
Summer 2	To Communicate	<p>To use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<ul style="list-style-type: none"> <li>• Save information in a special place and retrieve it again</li> <li>• Save information in a special place and retrieve it again to edit it</li> <li>• Use technology to create and present ideas, including printing a document</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="http://www.pivotanimator.net">http://www.pivotanimator.net</a></li> <li>• Purple Mash – 2Animate, 2Create a story, 2Publish</li> <li>• iPads</li> </ul>