

Progression of Knowledge and Skills in Computing

		EYFS	Key Stage One	
			Cycle A	Cycle B
Digital Literacy			- To understand what is meant by technology. - To be able to identify examples of technology both in and out of school	- To understand what is meant by technology. - To be able to identify examples of technology in the home.
Generic Skills		- To know how to turn the laptops on. - To know how to log in to the laptops with adult support. - To know how to log in into Mini Mash with adult support. - To be able to save their work in their tray in Mini Mash with adult support. - To know how to use the interactive whiteboard respectfully to complete a simple game - To know how to use the CD player / recording buttons	- To be able to print work using the Print icon - To be able to save and retrieve work with support (Year 1 focus) - To be able to save and retrieve work independently (Year 2 focus) - To make simple modifications to their work (edit) - To be able to plan and talk about what they are doing to do (Year 2 focus)	- To be able to print work using the Print icon - To be able to save and retrieve work with support (Year 1 focus) - To be able to save and retrieve work independently (Year 2 focus) - To make simple modifications to their work (edit) - To be able to plan and talk about what they are doing to do (Year 2 focus)
Using Technology	Using the Internet and Email Safely	- To begin to know how to keep themselves safe online - To know that they should tell an adult if they are unsure about anything that happens online	- To understand the importance of not sharing personal information on the internet. - To identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies - To understand why it is important to be kind and polite online and in real life - To learn how to search Purple Mash to find resources. - To start to understand the idea of ‘ownership’ of their creative work. - To understand the importance of logging out when they have finished.	- To understand the importance of not sharing personal information on the internet. - To identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies - To begin to understand how things are shared electronically such as posting work to the Purple Mash display board - To develop an understanding of how to use email safely by using zRespond activities on Purple Mash. - To understand that information put online leaves a digital footprint or trail. - To begin to think critically about the information they leave online. - To identify the steps that can be taken to keep personal data and hardware secure. - To be able to use a search engine to find information.

Using Technology	Word Processing	To be able to type their name	- To practise typing skills using both hands (ongoing) - To be able to use the space bar to leave a gap between words. (Year 1 focus) - To know when to use the Return key to start a new line (Year 1 focus) - To be able to use the capital lock or shift key to type capital letters (Year 1 focus) - To be able to use a full stop when typing a sentence (Year 1 focus) - I can use the shift key to type symbols. (Year 1 focus) - To be able to use the cursor (arrow) keys and the backspace key or delete key for simple onscreen editing (Year 1 focus) - To be able to use the mouse or arrow keys to insert words and sentences (Year 2 focus) - To be able to highlight appropriate words or sections of type using bold, italics and underline (Year 2 focus) - To be able to change the font, size and colour of the text (Year 2 focus)	- To practise typing skills using both hands (ongoing) - To be able to use the space bar to leave a gap between words. (Year 1 focus) - To know when to use the Return key to start a new line (Year 1 focus) - To be able to use the capital lock or shift key to type capital letters (Year 1 focus) - To be able to use a full stop when typing a sentence (Year 1 focus) - I can use the shift key to type symbols. (Year 1 focus) - To be able to use the cursor (arrow) keys and the backspace key or delete key for simple onscreen editing (Year 1 focus) - To be able to use the mouse or arrow keys to insert words and sentences (Year 2 focus) - To be able to highlight appropriate words or sections of type using bold, italics and underline (Year 2 focus) - To be able to change the font, size and colour of the text (Year 2 focus)
	Graphics	- To be able to use an ipad or whiteboard to experiment with mark making - To be able to drag and drop shapes to create a picture on the whiteboard or ipad	- To understand the differences between a graphics package and paper-based art activities - To be able to use an art package as a medium to convey their ideas, as one of a range of media available - To be able to use a range of tools in a computer program to create pictures. - To be able to use the undo and redo icons to edit their work	
	Multimedia	To be able to add a picture, sound recording and text to an image from the role play area in Mini Mash with adult support		- To explore how information can be presented in different ways. - To make a presentation to share with the class. - To introduce e-books and the 2Create a Story tool. - To add animation to a story. - To add sound to a story, including voice recording and music the children have composed. - To work on a more complex story, including adding backgrounds and copying and pasting pages. - To share e-books on a class display board.

	Music	To be able to use 2Explore in Mini Mash to create, record and play back music		- To use appropriate software to create a composition - To manipulate digital content by editing and amending their composition
Using Technology	Data Handling		- To sort shapes by number of sides on the computer - To understand that data can be represented in picture format - To be able to create pictograms to represent data - To learn about data handling tools that can give more information than pictograms. - To understand that questions are limited to 'yes' and 'no' answers in a binary tree. - To construct a binary tree to separate different items - To be able to use a database to organise data - To be able to use a database to answer questions	
	Spreadsheets		- To know what a spreadsheet program looks like. - To know how to open 2Calculate in Purple Mash. - To know how to enter data into spreadsheet cells. - To use 2Calculate image tools to add clipart to cells. - To use 2Calculate control tools: lock, move cell, speak and count.	- To use 2Calculate image, lock, move cell, speak and count tools to make a counting machine. - To learn how to copy and paste in 2Calculate. - To use the totalling tools. - To use a spreadsheet for money calculations. - To use the equals tool to check calculations. - To collect data and produce a graph.
Computer Science	Coding & Computational Thinking	- To understand that instructions need to be given in the right order - To understand that Beebots need to be programmed to move - To understand that if you press forwards once the BeeBot will travel the same distance each time. - To understand that pressing the left and right buttons once makes the BeeBot turn on the spot in that direction - To be able to plan a simple route to complete a task - To be able to program a Beebot to complete a set route - To be able to persevere and adapt their thinking if their plan does not work.	- To understand what coding means - To use design mode to set up a scene - To add characters - To use code blocks to make the character perform actions - To understand that an 'algorithm' is a precise, step-by-step set of instructions used to solve a problem or achieve an objective - To know that an algorithm written for a computer to follow is called a program - To know that correcting errors in an algorithm or program is called 'debugging' - To understand what coding means in computing - To use the 2Code program to create a simple program - To know that an unexpected outcome is due to the code they have created and to be able to make logical attempts to fix the code	- To know how to use the direction keys in 2Go to move forwards, backwards, left and right - To know how to add a unit of measurement to the direction in 2Go - To be able to create a simple algorithm - To be able to debug their algorithm