

## COMPUTING KNOWLEDGE PROGRESSION FROM YEAR R-6

EYFS	YEAR 1	YEAR 2	YEAR 3 and 4	YEAR 5 and 6
<p>An algorithm is a set of instructions.</p> <p>That clicking on/pressing an app will make that program start.</p> <p>We use technology in our everyday lives.</p> <p>To ask permission before they go online.</p> <p>To make sure an adult knows what they are doing online.</p> <p>Technology can provide us with information.</p>	<p>Computers can look different.</p> <p>An iPad has a screen and touching the screen makes it work.</p> <p>Clicking on the cross in the corner closes the program.</p> <p>Command buttons and programming blocks cause the beebots or sprite to move in the programmed direction.</p> <p>Technology can be used to produce art.</p> <p>Different icons on drawing apps represent different functions such as brush thickness, colour and fill.</p> <p>What is typed on the keyboard comes up on the screen and letters can change size and font.</p>	<p>Programs can be accessed through different devices.</p> <p>Programs are opened and used in different ways on different devices.</p> <p>A laptop has a screen, keyboard and track-pad.</p> <p>The order of commands affects the outcome when programming.</p> <p>Different effects can be applied to photographs.</p> <p>Special effects can be applied to videos, such as time lapse, and speed changing.</p> <p>IPads can be used to take photos and videos and icons on the screen affect what happens to the image or recording.</p> <p>Email is a type of online written communication.</p> <p>Emails are sent to and from an individual email address.</p> <p>A pictogram representing data collected can be made using a specific program.</p>	<p>A computer or laptop has a motherboard, speakers, and ports for connections to external devices.</p> <p>A blog is a form of recording information online and this can be publicly available.</p> <p>Passwords are important to protect personal information and access to a private account, and these should not be shared.</p> <p>Key words are used when using a search engine.</p> <p>Music can be created online or using a specific program.</p> <p>A microphone is an input device and a speaker is an output device.</p> <p>Technology can be used to collect data over time and sensors monitor environmental factors.</p> <p>People on different devices can access the same online space and work collaboratively there.</p> <p>Block coding applications can move a sprite or Ozobot in a wide variety of ways.</p> <p>Count-controlled loops repeat a function for a set number of times.</p>	<p>Technological devices can be connected through wireless internet, a network or through a Bluetooth connection.</p> <p>Search engines use a ranking system which uses data from location and cookies.</p> <p>Companies can pay search engines so that their website appears higher in a search.</p> <p>Data can be shared through the internet and people have a responsibility to use this safely.</p> <p>Python is a programming language.</p> <p>Videos can be captured, edited and manipulate for different purposes and for different effects.</p> <p>A flat file database is like a table of data and can be used to organise and compare data.</p> <p>A spreadsheet is a type of flat file database.</p> <p>Questions and selection can be included in the writing of a program, and the outcomes are controlled by answers given.</p> <p>Vector graphics is a form of computer-assisted drawing with tools that allow the creation of shapes, lines and colour.</p>

			<p>Infinite loops repeat a function until it is manually stopped.</p> <p>Logo is a programming language.</p> <p>Images can be cropped and filtered for different purposes and for different effects.</p>	<p>There are computer programs for design of buildings and 3D objects which can be modified and resized throughout the process.</p> <p>Copyright is an author's ownership of their material and this material cannot be reused without permission.</p> <p>Websites are created for different audiences and purposes.</p> <p>Websites have different navigation paths in them.</p>
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