



Computing Skills and knowledge	
Expected by the End of Year <u> 5 </u>	
Generic Skills	Computer Science
<ul style="list-style-type: none"> • be able to choose an appropriate program to perform a task • be able to combine and refine information from various sources. • interpret and question the plausibility of information. • have experience of a range of ICT equipment and software • describe and discuss their work and explain how and why they have used ICT • use appropriate ICT vocabulary 	<p>Control and Programming</p> <ul style="list-style-type: none"> • use on-screen control software to plan, create and run a set of instructions to make e.g. to change the traffic lights • predict the outcome of a control procedure • be aware of control applications in everyday life e.g. automatic doors, robots in car factories, automatic security lights • create patterns using repeated simple procedures • test, modify and improve Logo patterns • explore the effect of changing a variable within a procedure • use a variable to increase programming possibilities • change an input to a program to achieve a different output • use logical reasoning to detect and debug mistakes in a program • use logical thinking, imagination and creativity <p>Data Logging</p> <ul style="list-style-type: none"> • be aware of other sensors that can be used e.g. light sensor, sound sensor, pulse monitor • be able to interpret the data from the sensing device • use sensing devices e.g. in their science experiments
Digital Literacy	Information Technology
<p>Research</p> <ul style="list-style-type: none"> • with support, use a more complex search engine to find information on the Internet • use AND and OR in their searches • with support, check the accuracy of information • begin to be aware of privacy and other issues related to using the Internet <p>Data handling</p> <ul style="list-style-type: none"> • carry out more complex searches on more complex prepared databases e.g. be able to answer complex questions such as – Did all the mini beasts in a particular habitat have the same diet? • use AND and OR in their searches • identify data handling opportunities, set up a data file and enter data • check for validity and amend errors • use the data file to answer complex questions <p>Spreadsheets</p> <ul style="list-style-type: none"> • use a spreadsheet to record data and produce graphs • enter data in a prepared spreadsheet • select data to produce a graph • use a spreadsheet to explore number patterns e.g. in a hundred square, multiplication table <p>E-Safety</p> <ul style="list-style-type: none"> • communicate kindly and respectfully and can describe the impact where this does not happen • explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to a trusted adult • use a secure password and safe screen name when I am using an online tool • explain the risks of sharing too much about myself online • explain why I need to protect my computer or device from harm • identify the intended audience for an advert 	<p>Graphics and digital video</p> <ul style="list-style-type: none"> • use a wider range of tools within an art package as necessary • continue to manipulate images using an art package or other software • begin to evaluate when it is appropriate to use an art package and when another medium would be more suitable • continue to use a digital camera or digital video camera to take appropriate pictures or video for a specific purpose <p>Sound</p> <ul style="list-style-type: none"> • continue to use microphones/sound buttons as appropriate • continue to use the sound files in other applications • use more sophisticated music software to plan, create, evaluate, edit and play their own compositions <p>Multimedia</p> <ul style="list-style-type: none"> • design and create a presentation or digital film e.g. to show other pupils what they did on a school trip • evaluate the suitability of the presentation for the given audience • make changes to the presentation to make it more suitable for the audience <p>Word processing and Email</p> <ul style="list-style-type: none"> • use and practise their word processing skills in a range of contexts • use email as a communication tool to collaborate with other pupils e.g. to work together on a project • send a picture or document as an attachment • know that files can be send via email as attachments • know that email can be sent, forward or copied to more than one person • begin to be aware that computer viruses can be sent via email



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