

Computing Progression  
End of Year Expectations



	Online Safety and Digital Literacy <i>see <a href="#">Education for a Connected World</a></i>	Information Technology	Computer Science
16 – 26 months			<ul style="list-style-type: none"> <li>Anticipates repeated sounds, sights and actions, e.g. when an adult demonstrates an action toy several times</li> <li>Seeks interest in toys with buttons, flaps and simple mechanisms and beginning to learn to operate them</li> </ul>
22 – 36 months			<ul style="list-style-type: none"> <li>Seeks to acquire basic skills in turning on and operating some ICT equipment</li> <li>Operates mechanical toys e.g. turns the knob on a wind-up toy or pulls back on a friction car</li> </ul>
30 – 50 months		<ul style="list-style-type: none"> <li>Knows that information can be retrieved from computers</li> </ul>	<ul style="list-style-type: none"> <li>Knows how to operate simple equipment e.g. turns on a CD player and uses a remote control</li> <li>Shows an interest in technological toys with knobs or pulleys, or real objects (cameras, mobile phones)</li> <li>Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images</li> </ul>
40 – 60 months		<ul style="list-style-type: none"> <li>Completes a simple programme on a computer</li> <li>Uses ICT hardware to interact with age appropriate computer software</li> </ul>	
EYFS	<ul style="list-style-type: none"> <li>To be introduced to E-safety and Smartie the Penguin</li> <li>Recognise that a range of technology is used in places such as homes and schools</li> <li>Select and use technology for particular purposes</li> </ul>	<ul style="list-style-type: none"> <li>Be able to complete a simple programme on a computer or ipad e.g. Millie's Mouse and Keyboard Skills</li> <li>Develop keyboard and mouse skills</li> <li>Use ipads to take photographs of their models</li> </ul>	<ul style="list-style-type: none"> <li>To be able to use mechanical toys e.g. pulling back a friction car</li> <li>Know how to operate simple equipment e.g. using a remote control</li> <li>Shows an interest in technological toys or real objects like cameras and mobile phones</li> <li>Find out about every day technology in other places (supermarkets) and use technology for a purpose</li> <li>To be introduced to algorithms using the beebots</li> </ul>
Y1	<ul style="list-style-type: none"> <li>Know that the internet is accessed all over the World and know some devices are connected to the internet.</li> <li>Know that they should always ask a responsible adult if they want to use a device and ask for help if they see anything that worries them.</li> <li>With support from an adult be able to find information on the internet.</li> <li>Know what personal information is and that they should never share this with anyone they don't know.</li> </ul>	<ul style="list-style-type: none"> <li>Be able to log onto a computer or use a QR code to evidence work on a tablet</li> <li>Be able to navigate around the screen with a mouse or touchpad</li> <li>Know how to type text using space bar for separate words to create something meaningful</li> <li>Be able to save and print work on <b>PC or Tablet</b></li> <li></li> <li>Be able to independently find and use an app on a tablet for instance to take and view a video or photograph</li> </ul>	<ul style="list-style-type: none"> <li>Know which button on a device represents which action e.g. <b>Bee Bot</b></li> <li>Know how to program a robot to follow simple sequence of instructions (1- 2 turns)</li> <li>Make a simple sequence of instructions / algorithm</li> <li>Be able to make simple predications about an algorithm and a program. <b>The Bee Bot will go....</b></li> <li>Be able to change (debug) the program to improve the route</li> </ul>
Y2	<ul style="list-style-type: none"> <li>Know devices that enable direct communication between people through images and text.</li> <li>Know what personal information is and that they should never share this with anyone they don't know.</li> <li>Know that they should tell a trusted adult if they are upset or worried about anything on a device.</li> <li>With support be able to use a safe search engine e.g. <b>swiggle</b></li> </ul>	<ul style="list-style-type: none"> <li>Be able to save, retrieve and print work on <b>PC or Tablet</b></li> <li>Know how to type and format text including basic punctuation and capital letters <b>Any suitable software</b></li> <li>Be able to confidently use pointing device <b>Mouse, Touchpad</b></li> <li>Be able to add and create simple images</li> <li>Be able to combine simple text and graphics, for instance create a poster for a purpose <b>Any suitable software</b></li> </ul>	<ul style="list-style-type: none"> <li>Know how to program a robot to achieve set goal (sequence of 6-7 instructions: maze, point collecting)</li> <li>Begin to use block programming e.g. <b>Scratch Junior (Alex, Daisy Dino)</b> to complete a simple program.</li> <li>Be able to debug more complex problems e.g. a route on <b>a Bee Bot / Blue Bot / Alex / Logo etc...</b> maze.</li> </ul>

Builds on last year's skills

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