

Curriculum 2017-2018.

	Key skills in
<b>EYFS</b>	<p><b>16-26 months</b>  T1- Anticipates repeated sounds, sights and actions  T2- Shows interest in toys with buttons, flaps &amp; simple mechanisms and beginning to learn to operate them.</p> <p><b>22-36months</b>  T3- Seeks to acquire basic skills in turning on and operating some ICT equipment.  T4- Operates mechanical toys</p> <p><b>30-50 months</b>  T5- Knows how to operate simple equipment  T6- Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones.  T7- Shows skill in making toys work by pressing parts or ;lifting flaps to achieve effects such as sound, movement or new images.  T8- Knows that information can be retrieved from computers.</p> <p><b>40-60 months</b>  T9- Completes a simple program on a computer.  <b>ELG-</b> Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</p>
<b>Year 1</b>	<p><b>Algorithms and Programming</b></p> <ul style="list-style-type: none"> <li>• I can create a series of instructions.</li> <li>• I can plan a journey for a programme toy.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>• I can create, store and retrieve digital content.</li> <li>• I can use a website.</li> <li>• I can use a camera.</li> <li>• I can record sound and play back.</li> </ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>• I can use technology safely.</li> <li>• I can keep personal information private.</li> </ul>
<b>Year 2</b>	<p><b>Algorithms and Programming</b></p> <ul style="list-style-type: none"> <li>• I can use a range of instructions (e.g. directions/ angels/ turns).</li> <li>• I can test and amend a set of instructions.</li> </ul>

	<ul style="list-style-type: none"> <li>• I can find errors and amend. (debug)</li> <li>• I can write a simple program and test it.</li> <li>• I can predict what the outcome of a simple program will be (logical reasoning)</li> <li>• I understand that algorithms are used on digital devices.</li> <li>• I understand that programs require precise instructions.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>• I can organise digital content.</li> <li>• I can retrieve and manipulate digital content.</li> <li>• I can navigate the web to complete simple searches.</li> </ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>• I use technology respectfully.</li> <li>• I know where to go for help if I am concerned.</li> <li>• I know how technology is used in school and outside of school.</li> </ul>
<b>Year 3</b>	<p><b>Algorithms and Programming</b></p> <ul style="list-style-type: none"> <li>• I can design a sequence of instructions including directional instructions.</li> <li>• I can write programs that accomplish specific goals.</li> <li>• I can work with various forms of input and output.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>• I can use a range of software for similar purposes.</li> <li>• I can collect information.</li> <li>• I can design and create content.</li> <li>• I can present information.</li> <li>• I can search for information on the web in different ways.</li> <li>• I can manipulate and improve digital images.</li> </ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>• I use technology respectfully and responsibly.</li> <li>• I know different ways I can get help if I am concerned.</li> <li>• I understand what computer networks do and how they provide multiple services.</li> <li>• I can discern where it is best to use technology and where it adds little or no value.</li> </ul>
<b>Year 4</b>	<p><b>Algorithms and Programming</b></p> <ul style="list-style-type: none"> <li>• I can experiment with variables to control models.</li> <li>• I can give an on-screen robot specific instructions that takes them from A to B.</li> <li>• I can make an accurate prediction and explain why I believe something will happen (linked to programming).</li> </ul>

	<ul style="list-style-type: none"> <li>• I can de-bug a program.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>• I can select and use software to accomplish given goals.</li> <li>• I can collect and present data.</li> <li>• I can produce and upload a pod cast.</li> </ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>• I recognise acceptable and unacceptable behaviour using technology.</li> </ul>
<b>Year 5</b>	<p><b>Algorithms and Programming</b></p> <ul style="list-style-type: none"> <li>• I can combine sequences of instructions and procedures to turn devices on and off.</li> <li>• I can use technology to control an external device.</li> <li>• I can design algorithms that use 4 repetition &amp; 2 way selection.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>• I can analyse information.</li> <li>• I can evaluate information.</li> <li>• I understand how search results are selected and ranked.</li> <li>• I can edit a film.</li> </ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>• I understand that you have to make choices when using technology and that not everything is true and/or safe.</li> </ul>
<b>Year 6</b>	<p><b>Algorithms and Programming</b></p> <ul style="list-style-type: none"> <li>• I can design a solution by breaking a problem up.</li> <li>• I recognise that different solutions can exist for the same problem.</li> <li>• I can use logical reasoning to detect errors in algorithms.</li> <li>• I can use selection in programs.</li> <li>• I can work with variables.</li> <li>• I can explain how an algorithm works.</li> <li>• I can explore 'what if' questions by planning different scenarios for controlled devices.</li> </ul> <p><b>Information Technology</b></p> <ul style="list-style-type: none"> <li>• I can select, use and combine software on a range of digital devices.</li> <li>• I can use a range of technology for a specific project.</li> </ul> <p><b>Digital Literacy</b></p> <ul style="list-style-type: none"> <li>• I can discuss the risks of online use of technology.</li> <li>• I can identify how to minimise risks.</li> </ul>