




Farnborough Primary School Progression of Knowledge and Skills Computing

 Farnborough Primary School	Computer Science	Information Technology	Digital Literacy
EYFS	<p>I can use technological toys with knobs or pulleys, or real objects such as cameras or mobile phones.</p> <p>I can show skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images</p>	<p>I recognise that a range of technology is used in places such as homes and schools.</p> <p>I am familiar with the keyboard, including letters, numbers, full stops, capital letter and space bar.</p> <p>I know that information can be retrieved from computers.</p> <p>I can use the mouse.</p> <p>I can select and use technology for particular purposes which are age-appropriate.</p> <p>I can complete a simple program on a computer.</p>	<p>I can remember rules without needing an adult to remind them.</p> <p>I show resilience and perseverance in the face of a challenge.</p> <p>I know and talk about the different factors that support my overall health and wellbeing (e.g. sensible amounts of 'screen time')</p> <p>I can use my fine motor skills so that I can use a range of tools competently, safely and confidently.</p> <p>I am confident to try new activities and show independence, resilience and perseverance in the face of challenge.</p> <p>I can explain the reasons for rules, know right from wrong and try to behave accordingly.</p>


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Year 1	<p>I know what an algorithm is.</p> <p>I know what a computer program is.</p> <p>I know what it means to run a program.</p> <p>I can explain the steps in a simple algorithm.</p> <p>I can explain how a computer follows an algorithm.</p> <p>I can write an algorithm on paper.</p> <p>I can write a simple program.</p>	<p>I know what a file is.</p> <p>I know what a computer is.</p> <p>I can use a computer to create a file (document/presentation/picture etc).</p>	<p>I know the difference between private and public.</p> <p>I can explain why it is important to stay safe online.</p> <p>I can describe what information should be kept private.</p> <p>I can use a computer safely.</p> <p>I can list some dangers of using the internet.</p>


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Year 2	<p>I know what a “bug” is.</p> <p>I know what it means to debug a program.</p> <p>I can explain why debugging is useful.</p> <p>I can recognise when a program runs correctly or has an error.</p> <p>I can use a debugger to step through a problem.</p> <p>I can spot an error in an algorithm.</p> <p>I can find a bug in a program.</p> <p>I can fix a bug in a program.</p> <p>I can break a problem down into smaller steps.</p> <p>I can predict how a computer program will behave.</p> <p>I can explain whether problems are best solved by computer programs and which by humans.</p> <p>I can compare different algorithms in terms of speed and how easy they are to follow.</p>	<p>I can organise files on a computer.</p> <p>I can open work on a computer.</p> <p>I can edit work on a computer (e.g. proof read and edit text).</p> <p>I can create something useful on a computer.</p>	<p>I can use the internet without giving away private information.</p> <p>I can send a message using a computer without upsetting anyone.</p> <p>I say how my school could make its students safer online.</p> <p>I can recognise something online as bad or wrong.</p> <p>I can recognise something online as good or helpful.</p> <p>I can tell people what they can do if they see anything bad online.</p>


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Year 3	<p>I know what a program is.</p> <p>I know what debugging is.</p> <p>I know what computer control means.</p> <p>I know what a program is.</p> <p>I can explain the difference between input and output.</p> <p>I can give examples of what algorithms can be used for.</p>	<p>I know what data is.</p> <p>I know what information is.</p> <p>I know what software is.</p> <p>I can explain the difference between data and information.</p> <p>I can explain what the internet can be used for.</p> <p>I am becoming familiar with a selection of programs.</p>	<p>I know what safe means in reference to using IT.</p> <p>I understand why people need to be safe online.</p> <p>I understand how to use technology safely.</p> <p>I can evaluate how safe someone's behaviour is when using technology.</p> <p>I can create something that tells people how to stay safe when using IT.</p>


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Year 4	<p>I know what simulation means.</p> <p>I know what a physical system is.</p> <p>I can explain why programs need to be tested and debugged.</p> <p>I can explain why computers are sometimes used to control things.</p> <p>I know what sequence means.</p> <p>I know what repetition means.</p> <p>I know what a variable is.</p> <p>I can follow a sequence of instructions.</p> <p>I can repeat something a certain number of times and recognise how to do it more efficiently.</p> <p>I can use a variable to keep track of something (e.g. counting).</p>	<p>I can explain what the internet can be used for (revisit from Yr 3).</p> <p>I am able to choose, with support, which program to use to make a piece of work.</p> <p>I can use software to create work for a given purpose.</p> <p>I can use a computer to collect data.</p> <p>I can use a computer to analyse data to show something useful.</p>	<p>I know what responsible means in reference to using IT.</p> <p>I understand why people should be responsible online.</p> <p>I can use technology in a responsible way.</p> <p>I can evaluate how responsible someone's behaviour is when using technology.</p> <p>I can create something that tells people how to use technology responsibly.</p>

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Year 5	<p>I can design a program on paper.</p> <p>I can split a problem into smaller parts.</p> <p>I can use a program to control a gadget.</p> <p>I can run a program.</p> <p>I know what selection means.</p> <p>I can make a decision based on selection instruction.</p> <p>I can explain why programs need to be tested and debugged.</p> <p>I can recognise whether an algorithm has worked or not.</p>	<p>I know what communication and collaboration are.</p> <p>I can explain what the internet can be used for.</p> <p>I can explain how the internet lets people communicate.</p> <p>I can use the internet to communicate with other people.</p> <p>I can explain why some search results appear higher than others on a search engine.</p> <p>I can search for information on the internet.</p> <p>I can choose, from a given selection, which program to use to make a piece of work.</p> <p>I can use software to create work for a given purpose.</p>	<p>I know what respectful means in reference to using IT.</p> <p>I can understand why people should be respectful online.</p> <p>I can use technology in a respectful way.</p> <p>I can evaluate how respectful someone's behaviour is when using technology..</p> <p>I can create something that tells people how to use technology respectfully.</p>

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Year 6	<p>I can use a program to simulate a physical system.</p> <p>I can spot when a program goes wrong.</p> <p>I can debug a program to fix a problem.</p> <p>I can explain the strengths and weaknesses of using a simulation compared to the real thing.</p> <p>I can write programs.</p> <p>I can write a program that controls a gadget.</p> <p>I can make a simulation of a physical system.</p> <p>I can explain how an algorithm works.</p>	<p>I can explain how the internet lets people collaborate.</p> <p>I can use the internet to collaborate with other people.</p> <p>I can describe what can go wrong when using the internet to communicate or collaborate.</p> <p>I can explain the advantages and disadvantages of using the internet to communicate.</p> <p>I can ignore information that is not relevant when searching the internet.</p> <p>I can create advice for others on how to search effectively online.</p> <p>I can evaluate how well a piece of work does what it's supposed to do.</p> <p>I can choose which program to use to make a piece of work.</p>	