Dothill Progression Document

	Computer Science	Information Technology	Digital Literacy	Internet Safety
EYFS	✓ I can complete a simple program on a computer. ✓ I know how to operate simple equipment.	✓ I can select and use technology for a particular purpose. ✓ I can recognise that a range of technology is used in places such as homes and schools.	✓ I know that information can be retrieved from computers.	✓ I know that I can tell a trusted adult if something worries me online.
Year 1	✓ To understand what algorithms are. ✓ To know how to operate simple equipment using commands. ✓ To create and debug simple programs.	✓ To recognise common uses of technology around school.	✓ To use technology to create, store, manipulate and retrieve digital content. ✓ To start to understand that some work is online (internet based) and some offline.	✓ To understand where to go for help and support when I have concerns about content or contact online. ✓ To understand that some information is private and I must not share it. ✓ To know that I can tell a trusted adult if something worries me online.
Year 2	✓ To understand that programs execute by following precise and unambiguous instructions. ✓ To create a list of instructions to form an algorithm (eg on a device or	✓ To recognise common uses of information technology beyond school.	✓ To use technology purposefully to create, organise, store, manipulate and retrieve digital content.	✓ To understand how to use technology safely and respectfully when **communicating** with other people online. ✓ To identify **personal information that should be kept private**.

	App). ✓ To control and **debug** commands for a BeeBot or Screen Sprite to move it to a given **position**. ✓ To use logical reasoning to **predict** the behaviour of simple programs ✓ To understand how algorithms are implemented as programs on digital devices. (eg on a laptop/PC).			
Year 3	✓ To design and write programs that accomplish specific goals. ✓ To know how **to debug a program if it doesn't work**. ✓ To understand the terms 'input' and output'. ✓ To **predict** some of	✓ To understand that appropriate messages can be **sent digitally** (eg email). ✓ To locate specific information using search **technologies**. ✓ To understand that the internet is a network of computers.	✓ To **communicate my ideas well** using the right software and formats. ✓ To use software to **collect and present** data in a way that is **easy to understand**. ✓ To understand how to **retrieve** data on a tablet or computer.	✓ To understand some simple rules about how to **communicate safely** with other people online. ✓ To begin to understand that **not all information on web sites is true** (eg spoof websites). ✓ To identify personal information that **should be kept private and**

	the things that may happen before I run my program.		✓ To understand that the **World Wide Web** contains **lots of web pages** about different subjects. ✓ To retrieve pictures from websites to include in documents.	**not shared online**. ✓ To recognise **age appropriate symbols** (eg for games and films) to keep me safe. ✓ To identify a range of ways to report concerns about content and contact.
Year 4	✓ To design, write and debug programs including controlling or simulating physical systems. ✓ To use sequence, selection and repetition in programs.	✓ To demonstrate strategies for selecting reliable information from search technologies. ✓ To understand that the internet offers opportunities for communication and collaboration.	✓ To use some of the **more advanced features of applications** (not just change font) to present my ideas and work clearly. ✓ To **combine more than one source of information** (eg text, picture, video, animation, sound) in my work. ✓ To use software to **collect, present and analyse data appropriately**. ✓ To **format**	✓ To recognise acceptable and unacceptable behaviour online. ✓ To identify personal information that should be **kept private**. ✓ To know **how I can get help and support** if I am worried when using a computer.

			documents with the audience in mind.	
Year 5	✓ To use logical reasoning to explain how some simple algorithms work. ✓ To design, write and debug programs that accomplish specific goals by decomposing them into smaller parts. ✓ To identify various forms of input and output.	✓ To understand how computer networks can provide multiple services, such as the worldwide web. ✓ To be discerning in evaluating digital content.	✓ To select, use and combine a variety of software (including internet services) to collect and present data information. ✓ To **create and edit a presentation** to provide information clearly and can **include hyperlinks** in it (eg using PowerPoint or Keynote). ✓ To find some websites that are both **useful and reliable** (based on the author of the site). ✓ To understand that my work can be **saved in a range of places** (the device itself, USB stick or	✓ To identify and address false information online. ✓ To describe some of the risks of **sharing too much information online**. ✓ To understand **how I can report worries** I have when using the internet.

			'in the cloud').	
Year 6	✓ To detect and correct errors in algorithms and programs. ✓ To design, write and debug programs involving solving problems by decomposing them into smaller parts. ✓ To work with variables and various forms of input and output.	✓ To understand computer networks and the opportunities they offer for communication and collaboration. ✓ To appreciate how search results are selected and ranked. ✓ To be aware of **several different search engines** and can explain **some of their features**.	✓ To understand that my work can be **saved in a range of places** (the device itself, USB stick or 'in the cloud'). ✓ To design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	✓ To name some of the **dangers of communicating and collaborating with others online**. ✓ To describe ways in which technology should be used **safely, respectfully and responsibly**. ✓ To understand that it is **illegal to download or copy material** (without the written permission of the owner). ✓ To understand **how I can report worries** I have when using the internet. I know how to help other people if I need to.