Computing Key Knowledge Progression

EUXTON PRIMROSE HILL Primary School
"Together we will make a difference."

	Computer Science	Information Technology	Digital Literacy
EYFS	I know how to use technology to show my learning. I know how to use simple software to make something happen. I know and can talk about different kinds of information such as pictures, video, text and sound. I know and can identify rules that help keep us safe and healthy in and beyond the home when using technology. ***Instruction, photo, picture, video, text, sound, online, rules***		
Year 1	I understand what algorithms are. I know how to create a simple program on a digital device e.g. Bee Bot or tablet. ***Algorithm, debug, program,***	I know how to use technology with support, to create, store and retrieve digital content such as text and images. ***Edit, voiceover, image, zoom***	I understand how to keep their personal information private and understand they need to use technology safely and respectfully. ***Trusted adult, permission, password***
Year 2	I know how to use logical reasoning to predict the outcome of algorithms. I understand decomposition is breaking objects/processes down. ***Algorithm, decomposition, debug, prediction,***	I know how to make a range of simple digital assets such as presentations, movies, audio files and charts. ***Import, pictogram, crop, filter***	I know how to recognise situations using technology and the internet involving content and contact that are not safe and know where to go for help. ***Sharing, bullying, untrue, private***
Year 3	I know how to plan and write algorithms and programs using sequence and repetition. I understand abstraction is focusing on important information. I understand why computers are networked. ***Abstraction, sequence, forever/infinite loop, count controlled loop, LAN (Local Area Network)***	I know how to use a variety of software and devices to create digital assets such as programs and multimedia content for a defined purpose. ***Interactive, audio, background, effects (brush tools), branching database***	I know how to use technology safely and respectfully and have an understanding of how to keep information secure. ***accurate, age restrictions, data, copyright***
Year 4	I know how to design and write more complex algorithms and programs using sequence, repetition and selection. I know how to use logical reasoning to detect and correct errors in programs.	I know how to use and combine a variety of software and devices with increasing independence, to create a range of digital assets such as programs, graphs / charts and multimedia content.	I know how to use technology respectfully, responsibly and safely, knowing how to keep their information secure.

	I understand the difference between the Internet and WWW. ***Logical reasoning, selection, loop, input, output, internet, router, WWW, data, web page***	***Questionnaire, multimedia, hyperlinks, media library***	***Healthy, unhealthy online behaviours, fake news, screen time***
Year 5	I know how to design and write programs using sequence, repetition, selection and variables. I know how to evaluate the effectiveness of algorithms. I appreciate how pages are ranked in a search engine. ***Data, condition, variables, value, search engine, index, ranking algorithm, keyword, web crawler***	I know how to select, use and combine a range of software and use a wider range of applications to create a variety of digital assets such as programs, systems and multimedia content for a defined purpose. ***Publish, chorus, compose, Split screen, fade***	I know how to use technology safely, respectfully and responsibly and continue to develop skills to identify risks involved with contact and content, including evaluating digital content. ***Copied, modified, trustworthy, reliability, scams***
Year 6	I know how to design and create more complex programs using sequence, repetition, selection and variables appropriately. I know how to recognise and make use of patterns in my design and code. I understand what HTML is and recognize HTML tags. ***Pattern, modify, command, conditional, variable, HTML (HyperText Markup Language)***	I know how to independently select, use and combine a wide range of software to design and create a range of digital assets such as programs, systems and multimedia content for a defined purpose and audience. ***Design, navigation, homepage, URL, duplicate***	I know how to be a competent user of technology using it safely, respectfully and responsibly and know about how to develop a positive online reputation. ***Inappropriate, stereotypes, screen grabs, anonymity, ad targeting, phishing***