<u>Curriculum Progression Document – Computing</u>

	<u>Digital Literacy</u>	Information Technology	Online Safety	Computer Science
<u>Year 1</u>	to access different types of media content on their device. Including; sound, images, books,	 to create different types of digital content (short video, ebook or presentation). 	how to access and search the web.to identify people	to explore algorithms and sequencing of instructions.
	podcasts/ audiobooks and video via the web. about the uses and	 to combine text and images in a document that showcases learning 	they can trust and who they can ask for help when using the internet.	to read, follow and create a simple sequence algorithm.
	purpose of technology in the classroom, at home, work and the world around them.	 or tells a story. how they can use a search engine to find answers 	to send a digital message.	 about signing into a device or online platform. how they can use a
		and different types of media category e.g. images, book, videos.	 how they should behave and interact with others in the online world 	search engine to find answers and different types of media e.g. videos.
<u>Year 2</u>	 where different types of media content can be found online. Including; sound, images, books, 	 to create a presentation or basic digital book that is well designed, contains formatted text, images 	about safe and unsuitable sites/apps. e.g. PEGI rating.	 about writing algorithms that can be turned into programs.
	podcasts/ audiobooks and video via the web.	 and presents information. to read a simple database 	to talk to a trusted adult before sharing personal information	to implement their algorithm as a program on a digital device or
	 to explore their own use of the internet and why it is important to stick to the rules. 	to find information.the basic skills of searching and navigating	online and using strong passwords.	programmable toy/ robot.

		the results in a search engine to answer questions.	 that the characters and people they interact with may be computer generated / including games. the differences between the Internet and the physical world. 	 multiple services use the internet e.g. email, web and streaming. the basic skills of searching and navigating the results in a search engine.
Year 3	 how to make judgements about the usefulness and accuracy of information. about the term 'fake news'. about what copyright is and why we have copyright laws. to recognise copyright material. that the internet is a computer network. that the internet can provide multiple services, such as the world wide web, streaming music/ video and email. 	 to create digital content using a range of mixed tools/media and how to improve its design. to create a plan/storyboard when producing digital content. to use search engines to collect information. 	 the SMART rules about using the internet safely and responsibly. what personal information is and what they shouldn't be sharing. they should pause before posting and consider the potential consequences. who they should seek help from about online concerns. 	 to create a detailed flow diagram using the correct symbols. to turn an algorithm into a simple program on a digital device. to send an email and understands how this works. how information travels through computer networks. about testing the program and recognising when it needs to be debugged. that search engines try to put the most useful websites at the top.

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Year 4	 more about what Fake News is, it's purpose and that Fake News can be found on all media. how to identify Fake News. that data can be manipulated to make Fake News appear to be true to differentiate between apps that use the Internet, the school network or that are self- contained on a device. to use computing to communicate and collaborate. 	 to produce documents, media and presentations with increasing independence and competency that present data/ information. about new forms of technology E.g. AR, Virtual Reality, Wearable Technology etc. that not all sources of information including websites are accurate and can check information using a different sites. the safety feat websites and a e.g. block or reconcerns to a tadult. not to reveal p information to person they kn only online. that friends/fo profiles may not reflect the trut about their real 	algorithm to show a real- life situation. about the valuable skills of abstraction and decomposition when tackling more complex problems. to recognise the main components (hardware) which allow computers to join and form a network. th
<u>Year 5</u>	 about how and why information found on some sites will be biased. how to source copyright free materials to use in their digital projects. about different online communication 	 to produce digital content in a given format e.g. podcasts, videos, AR, virtual reality, 3D, digital music or illustrations. to use a spreadsheet / database to collect, record data and to use simple formulae. to demonstrate explain the importance of communicating and respectfull about the negation online behavior such as bullying trolling, griefin harassment. 	solving and decomposition. g kindly ly. to independently plan, write and test their algorithms and create more complex programs, debugging as needed.

	tools/apps and how they could be used for different purposes e.g. work and social. • about working in a group using collaborative tools	check the reliability of information on the internet.	 about empathy and the effects of online bullying. anything they post online can be seen, re-shared, re-used and may have a negative effect on others. how to avoid being tricked by scammers online. E.g. Phishing emails. The child can explain why an app may be free but have in-apppurchasing and what that is. 	 about controlling / simulating physical systems and using sensors with multiple outcomes about software, hardware and types of connected computers. about how data travels via the internet including binary. key skills for using a search engine. about the settings that can alter your search results.
<u>Year 6</u>	 to explore in more depth the legal and moral reasons not to plagiarise or infringe copyright and the impact it can have on the creator of the content. about digital crimes and threats that might exist online. E.g. worms, 	 to create digital storyboards with a complete narrative of the project or investigation to independently select, use and combine the appropriate technology/app tools to create effects that will 	 the advice they should/would give friends about making good choices online. the consequences of making poor online choices e.g. Online bullying, Inappropriate comments 	 to create complex algorithms and turn their designs into a program (incorporating variables, procedures and different forms of input and output). in more detail about how information/data is transported on the



trojans, viruses, spyware, ransomware and malware. • about anti-virus software and how they can help protect devices from infection. • advanced web terminology e.g. firewall, security updates, pop up blocker, scams, phishing, HTTPs, location based settings, in app purchasing, trolling,	 have an impact on others and tell a story to use complex searches, filters and advanced tools to find, select and use information 	 the way men and women can be stereotyped in movies and TV how to block and report inappropriate comments or behaviour online. 	 Internet and between computers using packets and IP addresses. about the opportunities computer networks and the internet offer for communication and collaboration. to explore advanced features within search engines and learn to use them effectively.
filtering etc.			