EYFS	Early Learning Goal Understanding the World (Technology) Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.							
EYFS	Digital I	Literacy	Information	Technology	Computer Science			
	Online-Safety see Project Evolve	Computer Systems and Networks	Creating Media	Handling Data				
	 recognise simple examples of personal information and trusted people recognise it's OK to say no to someone who asks me to do something I don't want to do recognise some ways the internet can be used to communicate. identify ways that people can be unkind online understand a list of rules to help keep us safe and healthy in when using technology. 	 begin to identify with support, examples of technology in the classroom 	 explore mark marking on iPads/IWB experiment with using keyboard to make marks on a page 		• explore floor robots such as Bee-Bots			

 begin to use the internet to find things out, with support 		

KS:	National Curriculum					
	By the end of KS1, pupils should be taught to:					
	 understand what algorithms are; how they are imp unambiguous instructions 	lemented as programs on digital devices; and that pr	ograms execute by following precise and			
	 create and debug simple programs 					
	• use logical reasoning to predict the behaviour of s	imple programs				
	• use technology purposefully to create, organise, st	ore, manipulate and retrieve digital content				
	• recognise common uses of information technology	beyond school				
	• use technology safely and respectfully, keeping pe	rsonal information private; identify where to go for	help and support when they have concerns about			
	content or contact on the internet or other online technologies.					
У1	Digital Literacy	Information Technology	Computer Science			

Online Safety See Project Evolve	Computer Systems and Networks	Creating Media	Handling Data	
 identify a set of rules to keep everyone safe online recognise more detailed examples of personal information recognise that there may be people online who could make me feel sad, embarrassed or upset and what do to if this happens use the internet, with adult support, to communicate with known people understand how to behave online in a way that will not upset others recognise that information can stay online and could be copies, as well as which information should not be put online use the internet to find things out 	 identify (in simple terms) what technology is recognise ways we use technology in the classroom recognise ways we use technology at home identify a computer and its main parts 	 log into a computer use a mouse to click and drag, highlight and select, open and navigate around programs use a keyboard to type (including using letter, number, space and backspace keys and shift/caps lock to type capital letters, bold, italic and underline tools) purposefully select tools to create a digital picture - e.g. spray, lines, shapes, brush etc use technology purposefully to create media save and retrieve work with support 		 give and follow precise and unambiguous instructions begin to recognise that programs require precise and unambiguous instructions and that these are called algorithms plan and create a simple program for a Bee-Bot and a sprite (in Scratch Jr) debug a simple program

У2	Digital L	iteracy	Information	Technology	Computer Science
	Online Safety See Project Evolve	Computer Systems and Networks	Creating Media	Handling Data	
	 recognise that online information about me can be seen by others use passwords to protect accounts and devices recognise that other people's identity online can be different to their identity in real life recognise that information put online can last for a long time recognise how someone who is bullied online would feel, and how to get help for myself or others. use keywords in search engines begin to recognise that some information found online may not be true 	 recognise ways technology is used in the wider world begin to recognise what 'information technology' is begin to consider the benefits of information technology 	 use technology to purposefully create a piece of music use a device to take photographs and establish what makes a good photograph use tools to edit photographs to achieve desired effects save, retrieve and evaluate work 	 record and represent data manually use technology to organise and present data in different ways begin to analyse data - make comparisons and answer simple questions about the graphs and charts created 	 recognise that programs require precise and unambiguous instructions and that these are called algorithms describe a series of instructions as a sequence explain what happens when the order of instructions changes use logical reasoning to predict the outcome of a program design, create and debug a program with two parts

KS2	S2 National Curriculum					
	By the end of KS2, pupils should be taught to					
	 design, write and debug programs that accor them into smaller parts 	plish specific goals, including	controlling or simulating pl	hysical systems; \cdot solve problems by decomposing		
	• use sequence, selection, and repetition in pro	rams; work with variables an	d various forms of input a	nd output		
	 use logical reasoning to explain how some sin understand computer networks including the offer for communication and collaboration 	5		algorithms and programs s the world wide web; and the opportunities they		
	 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information 					
	 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. 					
	Digital Literacy Information Technology Computer Science					
У3	Online Safety See Project Evolve Networks	1d Creating Media	Handling Data			

Online Safety See Project Evolve	Computer Systems and Networks	Creating Media	Handling Data	
 recognise what a strong password is and how to keep personal information private • understand how online and 'real life' identities can differ identify how to be respectful to others online identify where bullying might take place online identify strategies to help limit the use of technology to analyse information and differentiate between 'opinions', 'beliefs' and 'facts' understand that lots of people sharing the same opinions or beliefs online does not make those opinions or beliefs true 	 describe how networks physically connect to other networks recognise how networked devices make up the internet outline how websites can be shared via the World Wide Web describe how content can be added, accessed and shared on the World Wide Web 	 identify that sound can be digitally recorded use a digital device to record and play back sound plan, write, record and evaluate a podcast save a digital recording as a file combine software to edit and improve a digital recording identify changes that can be made to an image make changes to an image to achieve a particular goal identify positive and negative effects of retouching an image 	 use a digital device (data logger) to collect data automatically identify the data needed to answer a question interpret data collected and draw conclusions 	 recognise the importance of accuracy in programming understand the meaning of repetition in programming decompose a problem into parts identify infinite loops and count-controlled loops design, create and debug a program using count-controlled loops to accomplish a specific goal (in both a text-based and block-based programming environment)

У5	Digital	Literacy	Information	Technology	Computer Science
	Online Safety See Project Evolve	Computer Systems and Networks	Creating Media	Handling Data	
	 recognise that apps or services may read and share private information, and may take payment for additional content understand how identity online can be copied, modified or altered and to identify responsible choices about online identity recognise that some people online may want to do harm identify how to get help for myself or others who are being bullied online identify strategies to promote healthy sleep with regards to technology 	 recognise that computers can be connected together to form systems recognise the role of computer systems in our lives recognise how information is transferred over the internet explain how sharing information online lets people in different places work together contribute to a shared project online evaluate different ways of working together online 	 tools can be used to produce different outcomes recognise that vector drawings consist of layers create a vector drawing by combining shapes, and evaluate it recognise that videos include both visual and audio media plan a video select a suitable device and software to capture video recognise the 		 program various outputs (e.g. LEDs and motors) using a microcontroller design, write and debug a program that controls a physical system (Crumble controller) use a condition in an ifthen statement to produce a given outcome design and create a physical project which includes selection explain how selection is used in computer programs design, create and debug a program in a block-based programming environment (Scratch) which uses selection and accomplishes a given goal

 understand how to use different search technologies, evaluate digital content and explain how to make choices from search results. understand the difference between mis-information and dis-information, what a 'hoax' is and why it is important to be 'sceptical' online 	 store and retrieve video for editing evaluate video project 	
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У6	Digital Literacy	Information Technology	Computer Science

Online Safety See Project Evolve	Computer Systems and Networks	Creating Media	Handling Data	
 recognise the importance of using different passwords for a range of online services, and how to manage these identify ways in which media can shape ideas about gender, identify and challenge messages about gender roles understand that we are all responsible for the wellbeing of others in our online social groups and to identify how to report problems online for myself and others understand how to capture bullying content as evidence and how to report concerns describe common systems that regulate age-related content use search technologies effectively and to 	 explain why internet search terms need to be chosen carefully explain why the order of internet search results is important and to whom discuss the opportunities that technology offers for communication evaluate different methods of communication on the internet 	 use a computer to create and manipulate 3D digital objects use digital tools to modify a 3D object identify that physical objects can be broken down into a collection of 3D shapes design a digital model by combining 3Dobjects develop and improve a digital 3D model 	 spreadsheet application create a formula which includes a range of cells in a spreadsheet apply formula to calculate data required to answer a question produce a graph to show the answer to a 	 understand the meaning of 'variable' in programming design, create and debug a program in a block-based programming environment (Scratch) which uses variables and accomplishes a given goal experiment with different physical inputs design and develop a project which uses inputs and outputs on a controllable device (micro:bit)

explain how search engines work and how results are selected and ranked		