

	Computer Science	Digital Literacy	E-Safety	Information Technology
Early Years	<ul style="list-style-type: none"> I can identify some of the steps needed to achieve a simple task – e.g. brushing teeth I understand that people and computers follow instructions I can follow instructions and correct mistakes I know that devices and objects on a screen can be controlled I recognise that a printer is connected to a computers and devices 	<ul style="list-style-type: none"> I understand that the internet can be used to play and learn I know that the things I create digitally can be shared with others I recognise purposes for using technology at home and in school (e.g. TV for watching movies; interactive whiteboard for showing work in school) I can match images to appropriate sounds (e.g. 'duck' to 'quack') 	<ul style="list-style-type: none"> I understand that a password protects a device from someone else using it I understand that an adult should be present when I access online material I know who to go to for help if I need it when using the world wide web I understand to take turns when using technology I know that care is needed when using equipment 	<ul style="list-style-type: none"> I know that Information Technology (incl. online tools) can help me do things I can use a mouse to move objects I can use a keyboard for basic activities I can use a camera, sound recorder or mobile device to collect photographs and/or sound I can recognise and can use the common icons for save and print
Y1	<ul style="list-style-type: none"> I can read a set of instructions and sometimes predict the correct outcome I can produce instructions but sequence them incorrectly or make assumptions I understand that humans and computers follow instructions I can read a set of instructions and usually predict the correct outcome I can produce a set of instructions that others can usually follow I understand that computers follow instructions given in a precise way I can read a set of instructions and predict the correct outcome I can produce an accurate set of instructions using agreed language that others can follow I understand that computers are not smart and cannot think for themselves 	<ul style="list-style-type: none"> I can access a website using desktop shortcuts I can navigate simple websites with support I can get simple information from the world wide web I can use drawing tools to say something I can move around a website using buttons and image links I can find answers to simple questions using a website I can use drawing and text tools to give information I can visit a website by typing its address I can move around a website using links (images and words) and buttons I can talk about how I found information on a website I can make choices about the kind of information I collect from websites I can use words and pictures to make simple presentations 	<ul style="list-style-type: none"> I know that some information is personal (E.g. name& address) I can tell you why I do or don't trust someone, but sometimes get it wrong I understand that personal information should only be given to trusted people but sometimes trust the wrong people. I can give a few examples of information that is personal(E.g. hobbies) I can usually point out what it is about someone that makes me not trust them I know that personal information should only be given to people I trust I understand that a wider range of information is personal (E.g. regular attendance at a specific place) I can give examples of a variety of characteristics of trustworthy people and tell you why I think the way I do I know that personal information should only be given to trusted people 	<ul style="list-style-type: none"> I can type single words using a keyboard I can use a mouse or touch to select and drag objects around a screen with help I can create digital content using IT tools I can save a file with help I can enter simple sentences using a keyboard I can use a mouse or touch to select and drag objects around a screen I can select icons and items I can print work I can save work with help I can talk about how I have used a computer to create things I can use IT to create sentences that communicate meaning I can create and save different versions of my work I can compare and create work using IT with other ways I can explain why a particular tool has been chosen and its effect
Y2	<ul style="list-style-type: none"> I know that programming applications (e.g. Scratch) can be given commands to produce specific effects on screen I can produce a command that achieves a simple effect (e.g. movement) I can plan and give direct instructions to make things happen (e.g. playing robots) I can produce a sequence of instructions that result in planned outcomes. I can program a short a sequence of commands that results in a planned effect I can program and test a simple program I can create algorithms to solve simple problems I can predict the behaviour of simple algorithms and programs. 	<ul style="list-style-type: none"> I can use a shared link to find a websiteI can move around a website using hyperlinks and the back button with help I can find answers to questions using information in a website with help I can use email with support for communication and collaboration I can enter the address (URL) of a website with support I can identify some links within web content and move around them with purpose I am starting to use a range of apps and devices without help I can talk about how useful particular websites have been I can use email to talk and work with someone else 	<ul style="list-style-type: none"> I know that personal information should only be given to trusted people I can talk about the importance of staying safe online I can give lots of examples of what information is private I can talk about some of the ways to use computers safely I ask permission before using email clients or apps I can use computers and devices responsibly I can tell you some of the ways to report things I see or hear online that makes me uncomfortable, worried or upset 	<ul style="list-style-type: none"> I can enter simple sentences using a keyboard or touch I can use a mouse to point, click and drag objects. I can save files with direction I can explore a limited range of software I can write and send a simple email with help I can enter sentences using keyboard or touch I can use a mouse of touch input to make selections and move objects I can save, print and retrieve work I can use software, computers and devices to make simple presentations and create things I can compose and send a simple email

	<ul style="list-style-type: none"> I understand that computers follow algorithms and they are implemented as programs I can program a short sequence of commands, with repetition (loops) that results in a planned effect I can debug simple programs by correcting mistakes when things do not go as planned 	<ul style="list-style-type: none"> I can choose a website based on how useful it is I can show you how I found specific information on a website I can choose carefully the information I get from websites I can choose the right apps for a task I can use email with attachments 	<ul style="list-style-type: none"> I can talk about some of the dangers of sending and receiving emails 	<ul style="list-style-type: none"> I can use tools to create simple presentations that communicate meaning I can make choices about applications and tools to use for a particular purpose I can locate, edit and save different versions of my work I can compose and send emails attaching a variety of media I understand the circumstances where some forms of communication may be preferable to others
Y3	<ul style="list-style-type: none"> I know that programming applications (e.g. Scratch) can be given commands to produce specific effects on screen I can produce a sequence of blocks that achieves a simple effect (e.g. move a sprite around the screen) I can plan a sequence of instructions I can give a sequence of instructions, some of which are repeated (repetition) and involve choices (selection) e.g. if..then, to make things happen I can program a sequence of commands that results in a planned effect I can design and develop basic computer programs I can combine sequences of commands into procedures (blocks of code) that are repeated I can test and correct simple programs I can evaluate their own work and comment on improvements I can program and test a simple program 	<ul style="list-style-type: none"> I can move around a website using hyperlinks and the back button I can type web addresses (URLs) into a web browser I can create bookmarks/favourites I can recognise patterns in everyday activities I can point out suitable information to present I can find information by moving around a web page using hyperlinks and the back button I can confidently type web addresses into a web browser I can question the reliability of information I found online I can create bookmarks/favourites and use them to access websites I can print web pages and copy and paste information into other applications I can describe how I use technology at school and at home I can judge my own and other peoples work and talk about how they could be made better I know that people can communicate and collaborate online I can use search technology to find things out I can double check information found online on one website against another I can carefully select information from a range of websites 	<ul style="list-style-type: none"> I can talk about some ways I can keep myself safe when using ICT I can use ICT to communicate, talk about some of the risks and try to keep safe I understand that there are adverts online I can tell you why we need passwords and that they should be kept safe I can follow some e-safety rules I can point out an online advert I can give examples of right and wrong things to dousing computers and online I can tell you why information I find online needs to be checked I can check information I find online I can choose information from a different websites carefully I can explain how to avoid adverts tricking 	<ul style="list-style-type: none"> I can use features such as spell check to help edit my work I can cut and paste text I can create hyperlinks in documents I can collect data to enter in a database I can combine graphics with text I can use appropriate effects and re-size graphics I can copy text from one place to another I can copy images I can save and retrieve work to/from a network location I can combine graphics with text I can use bold, italic and underline I know how to undo and redo I can align text left, right, centre and justify and know to use them I can combine graphics with text
Y4	<ul style="list-style-type: none"> I can identify when it is possible to use the repeat command I can create algorithms with steps, some of which are repeated I can suggest what they think might happen if an algorithm or program were executed (not always accurately) I know that computers take input and produce output I can use sequence, selection and repetition in computer programs 	<ul style="list-style-type: none"> I can navigate around a website using hyperlinks and the back button I can enter URLs into an address bar of a browser with support I know that not all information on the Web is correct I know that internet search engines search for websites I understand that a computer network means connected computers 	<ul style="list-style-type: none"> I can talk about different ways I can keep myself safe when using ICT I know that not all information provided on the world wide web is correct I understand that I should get permission for sharing some things online I can tell you about why I should use secure passwords and why I need to keep them private 	<ul style="list-style-type: none"> I can use features such as spell check to help me edit my work I can cut and paste text I can create hyperlinks in document I can use the more advanced features of applications (e.g. word processing or presentation software) to help me match my work to an audience I can send an email I can reply to an email

	<ul style="list-style-type: none"> I can predict the outcome of a given algorithm or program and correctly identify if repetition is involved I understand the difference between the internet and internet services e.g. the world wide web I can identify a number of computing devices inside and outside of the classroom and identify some common forms of input and output I understand that computers store data as number I can write an algorithm to produce a given effect using repetition I can accurately predict the outcome of a range of algorithms and programs I can explain how a programmed effect has been achieved I can test, debug and refine algorithms and programs I can identify some common internet services that use the internet (e.g. online gaming or voice over internet) I know that a computer takes input, processes it and produces output I can identify a variety of computing devices and a number of inputs and outputs (e.g. touch, sound) I know that computers store and manipulate data as a series of ones and zeros and that this is called binary 	<ul style="list-style-type: none"> I understand that you can use the internet for activities other than web browsing I can confidently enter URLs into the address bar of a browser I know that not all information online is reliable and that it needs to be checked I know that a computer network is a number of computers and devices that are connected I can suggest a range of activities that you can do using the internet, including web browsing I can find information by navigating around a number of websites using hyperlinks and buttons I can question the credibility of information given on websites I know that internet search engines give a list of websites based on key words I can cross-check information provided on one website against that provided on another 	<ul style="list-style-type: none"> I can use ICT to communicate, talk about some of the risks and act to avoid them I can tell you why information found online needs to be checked I can give examples about what types of things online I might need permission to use I can use safety measures when using technology and working online (E.g. logging out of devices after use) I can use searches to find information I'm looking for and check if its useful and believable I check if the information I find online is right I can tell you what copyright means 	<ul style="list-style-type: none"> I can choose and use the appropriate advanced features of word processing or presentation software to better match my work to an audience I can carry out multi-conditioned searches to find answers to a variety of questions with assistance I can sort data to answer question
Y5	<ul style="list-style-type: none"> I know that computer programs contain commands that achieve a specific action I can write or amend computer programs to produce specific actions with assistance I understand that web pages are linked together and are part of the world wide web I can write and amend computer programs I can program a number of algorithms that achieve a specific outcome I can use repetition, variables and conditional statements in computer programs I can test computer programs and correct any errors I know that the World Wide Web consists of many websites and that web pages can be accessed using the internet I know that web pages are formatted using a type of 'code' 	<ul style="list-style-type: none"> I understand that you can use the internet for activities other than web browsing I can find information by navigating round a number of websites using links and buttons I know that not all information available online is reliable and that it needs to be checked, but I don't always check it I know that search engines give a list of websites based on search terms I can check information I find online I can use search technology to find things out I can suggest a number of activities you can use the internet for (e.g. online gaming, voice over internet, email etc) I can cross-check information provided on one website against multiple alternative sources I can create digital content for specific purposes I can discuss opportunities for communication and collaboration online 	<ul style="list-style-type: none"> I can use some safety measures when using technology and working online (E.g. logging out) I can use searches to find information I'm looking for and check if its useful and believable I check if the information I find online is right I know that people can be mean and nasty online I can tell you why personal information should only be given to trusted sources I know that some information on the internet maybe misleading or inaccurate and I check information I find I can use technology and online services to communicate and collaborate, identify some of the risks and act to minimise them I can give examples about what is good and bad behaviour online 	<ul style="list-style-type: none"> I understand that information in the form of text, sound and pictures can be linked together I can create simple digital content (e.g. a webpage) incorporating text and graphics, sometimes with assistance I understand that information in the form of text, sound and pictures can be combined to create digital content and communicate with an audience I recognise the audience when designing and creating digital content I can create digital content that incorporates text and images I understand that digital content needs to be planned to take account of the intended audience, the content and the layout of information I can discuss the reasons I made the choices I did for my digital creations including content, media I used and the layout

	<ul style="list-style-type: none"> I can write and amend more complex programs to create a variety of outcomes I can program algorithms that achieve a range of specified outcomes I can create efficient programs by designing solutions using abstraction (e.g.using procedures in the form of broadcasts in Scratch) I can test, debug and refine computer programs I understand that the World Wide Web is one of a number of services provided on the internet I understand basic HTM tags and CSS style 	<ul style="list-style-type: none"> I can use a variety of services provided by the internet (e.g. email, VOIP, gaming, video chat) I can improve my work based on feedback and can comment on the success of my work I can create digital content for specific purposes by combining software applications and internet services to communicate with an audience (e.g. creating web pages) 	<ul style="list-style-type: none"> I can talk about the different ways people can be bullied online I can give lots of examples about I can stay safe using technology and online and how to report anything I'm worried about I can communicate and work effectively and safely online I can use search criteria efficiently find information online and check if its accurate and reliable I know what to do if I come across cyberbullying 	<ul style="list-style-type: none"> I can develop and refine digital content for a specified audience
Y6	<ul style="list-style-type: none"> I can write or amend computer programs to produce specific actions I understand that the same 'problem' can be solved in different ways I know that commands can be given in shorter form I can use iteration (repeats and loops) in algorithms and program I can write or amend computer programs to produce specific actions I understand that the same 'problem' can be solved in different ways I know that commands can be given in shorter form I can use iteration (repeats and loops) in algorithms and programs I can write and amend more complex computer programs to create a variety of outcomes I can decompose 'problems' by splitting them into smaller 'problems' and designing solutions for each part I can use iteration (repeats and loops), variables and conditional statements (if..then) in computer programs I can test computer programs and correct most error I can create and use efficient methods of iteration, and nested conditional statements (if..then..if etc.) I can systematically test computer programs for bugs and make them work as expected 	<ul style="list-style-type: none"> I can use internet services other than web browsing (e.g. VOIP or email) I can talk about opportunities for communication and collaboration online I can find relevant information online and make some checks for accuracy and reliability I understand that internet search engines find information and list search results in the order of popularity I can remix web content, sometimes with help I can recognise an audience when creating digital content I can communicate and collaborate using technology and online services I can create web content using basic HTML I know that internet search engines use algorithms to find web content (e.g. web crawling) I know that search engines are organised in order of popularity I can use search technology and clear search terms to view web pages and obtain information and data I can use a number of internet services (e.g. email, voice over internet etc) I can create digital content for specific purposes and audiences I can use feedback to improve digital content I understand how internet search results are ranked I understand that computers on networks (incl. the internet) have unique addresses (IP 	<ul style="list-style-type: none"> I can identify a range ways they can keep themselves safe using technology and online services and know how to report any concerns I can communicate and work safely online I can use search criteria efficiently to find information online and check it for accuracy and reliability I can use passwords I know that people can be bullied online I can use digital tools to communicate and collaborate effectively online I can identify some of the risks associated with work and leisure in a digital society and act to minimise them I can find information online and check it for accuracy and reliability I can talk about the importance of screen locks that protect devices I can create passwords that might be difficult to guess I can make decisions about information sharing on the sites and services I use I can identify situations of harassment or bullying online I can identify situations when it's better to communicate face-to-face rather than to message I know that there are tools available to report online abuse I can use a variety of technologies and online tools to communicate and collaborate safely and effectively 	<ul style="list-style-type: none"> I understand that information in the form of text, sound and pictures can be combined to create digital content I can create digital content (e.g. a webpage) that incorporates text, images and sound I can plan, design and create digital content that incorporates text, images and sound and communicates with an audience I can discuss the rationale behind my designs I can develop and refine digital content I can create digital content that incorporates images, sounds and text and is organised into pages that matches the needs of a specified audience I can critically analyse digital content and make judgements about its suitability for a specific audience

	<ul style="list-style-type: none"> I can critically analyse algorithms and programs and suggest more elegant solutions -e.g. by using abstraction to suggest single solution that could be used to solve a number of problems (i.e. procedures) I can create procedures that call on other procedures (e.g. by using broadcasting blocks) 	<p>addresses) and that data is transmitted in packets</p> <ul style="list-style-type: none"> I can design and create web pages using HTML and CSS I can design criteria for evaluating digital content I can identify improvements and refine my own and other's work 	<ul style="list-style-type: none"> I can demonstrate responsible use of technology and online tools I know a number of risks associated with work and leisure in a digital society and act to minimise them I know how to create passwords that are hard to guess, yet easy to remember I can talk about specific ways to respond to bullying when I see it I can choose how to respond from options that feel safe and appropriate to me I know how to respond to negativity online I can talk about when and why it would be appropriate to use online reporting 	
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