

(NB above and beyond Early Learning Goals – can be used to assess pupils working below age expectations in KS1)

| Year group | What is a computer? Key skills | Presenting information and multimedia | Data | Programming and Algorithms |
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| Founda tion | <p>Use different digital devices.</p> <p>Recognise that you can access content on a digital device.</p> <p>Use a mouse, touchscreen or appropriate access device to target and select options on screen.</p> <p>Recognise a selection of digital devices.</p> <p>Recognise the basic parts of a computer, e.g. mouse, screen, keyboard.</p> <p>Select a digital device to fulfil a specific task, e.g. to take a photo.</p> | <p>Use technology to explore and access digital content.</p> <p>Operate a digital device with support to fulfil a task.</p> <p>Create simple digital content, e.g. digital art.</p> <p>Choose media to convey information, e.g. image for a poster.</p> | <p>Access content in a range of formats, e.g. image, video, audio.</p> <p>Answer basic questions about information displayed in images e.g. more or less.</p> | <p>Explore technology.</p> <p>Repeat an action with technology to trigger a specific outcome.</p> <p>Recognise the success or failure of an action.</p> <p>Follow simple instructions to control a digital device.</p> <p>Recognise that we control computers.</p> <p>Input a short sequence of instructions to control a device.</p> |

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| Foundation Digital Literacy | |
| <p>Are aware that some online content is inappropriate.</p> <p>Are aware that information can be public or private.</p> | <p>Know to tell an appropriate adult if they see something on the computer that upsets them.</p> |

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| 1- | <p>Recognise a range of digital devices.</p> <p>Select a digital device to fulfil a specific task, e.g. to take a photo.</p> <p>Name a range of digital devices, e.g. laptop, phone, games console.</p> <p>Log on to the school computer / unlock the school tablet with support.</p> <p>Identify the basic parts of a computer, e.g. mouse, keyboard, screen.</p> <p>Use a suitable access device (mouse, keyboard, touchscreen, switch) to access and control an activity on a computer.</p> <p>Open key applications independently.</p> <p>Save and open files with support.</p> <p>Add an image to a document from a given folder/source with support.</p> | <p>Create digital content, e.g. digital art.</p> <p>Choose media from a selection (e.g. images, video, sound) to present information on a topic.</p> <p>Recognise that you can find out information from a website.</p> <p>Recognise that you can edit digital content to change its appearance.</p> <p>Select basic tools/options to change the appearance of digital content, e.g. filter on an image / font / size of paintbrush.</p> <p>Combine media with support to present information, e.g. text and images</p> | <p>Recognise different forms of digital content, i.e. text, image, video and audio.</p> <p>Collect simple data (e.g. likes/dislikes) on a topic.</p> <p>Present simple data using images, e.g. number of animals.</p> <p>Recognise charts and pictograms and why we use them.</p> <p>Explain information shown in a simple chart or pictogram.</p> <p>Modify simple charts/pictograms, e.g. add title, item or labels.</p> <p>Identify the key features of a chart or pictogram.</p> <p>Collect data on a topic (eye colour, pets etc.) and present in a pictogram or chart.</p> | <p>Recognise that computers don't have a brain.</p> <p>Explain that we control computers by giving them instructions.</p> <p>Create a simple program e.g. to control a floor robot.</p> <p>Create a simple algorithm.</p> <p>Predict the outcome of a simple algorithm or program.</p> <p>Explain what an algorithm is – a sequence of instructions to make something happen.</p> <p>Recognise that the order of instructions in an algorithm is important.</p> <p>Debug an error in a simple algorithm or program e.g. for a floor robot.</p> |

| Year 1 Digital Literacy | |
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| <p>Use a simple password when logging on, where relevant.</p> <p>Explain why we use passwords.</p> <p>Recognise examples of personal information e.g. name, image.</p> | <p>Know who to tell if concerned about content or contact online.</p> <p>Recognise that digital content belongs to the person who created it.</p> <p>Talk about their use of technology at home.</p> |

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| 2 | <p>Recognise what a computer is (input > process > output).</p> <p>Recognise that a range of digital devices contain computers, e.g. phone, games console, smart speaker.</p> <p>Explain what the basic parts of a computer are used for.</p> <p>Identify and use input devices, e.g. mouse, keyboard; and output devices, e.g. speakers, screen.</p> <p>Open key applications independently.</p> <p>Save and open files to/from a given folder.</p> <p>Add an image to a document from a given folder/source.</p> <p>Resize an image in a document.</p> <p>Highlight text and use arrow keys.</p> <p>Capture media independently (e.g. take photos, record audio).</p> | <p>Create simple digital content for a purpose, e.g. digital art.</p> <p>Recognise that we can use technology to record and playback audio or take and view photographs.</p> <p>Apply edits to digital content to achieve a particular effect, e.g. emphasise part of a text.</p> <p>Present ideas and information by combining media, e.g. text and images.</p> <p>Explain that you can search for information on the internet.</p> <p>Plan out digital content, e.g. a simple sketch or storyboard.</p> <p>Identify the common features of digital content, e.g. title, images.</p> <p>Recognise that we can use different types of media to convey information, e.g. text, image, audio, video.</p> | <p>Identify different forms of digital content, i.e. text, image, video and audio.</p> <p>Recognise charts, pictograms and branching databases, and why we use them.</p> <p>Identify an object using a branching database</p> <p>Recognise an error in a branching database.</p> <p>Create a branching database using pre-prepared images and questions</p> <p>Identify the features of a good question in a branching database.</p> <p>Independently plan out and create a branching database.</p> <p>Evaluate a given branching database and suggest improvements</p> | <p>Explain that computers have no intelligence and we have to program them to do things.</p> <p>Create a program with multiple steps e.g. to control a floor robot.</p> <p>Predict the outcome of an algorithm or program with multiple steps.</p> <p>Recognise that the instructions in an algorithm need to be clear and unambiguous.</p> <p>Identify and correct errors in a given algorithm or program, and recognise the term debugging.</p> <p>Explain what an algorithm is, and that when inputted on a computer it is called a program.</p> <p>Plan out a program by creating an algorithm, and evaluate its success.</p> |

| Year 2 Digital Literacy | |
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| <p>Remember a simple password to log onto the computer or a website.</p> <p>Identify rules for acceptable use of technology in school.</p> <p>Recognise what personal information is and the need to keep it private.</p> | <p>Recognise that spending a lot of time in front of a screen can be unhealthy.</p> <p>Recognise that some information found online may not be true.</p> |

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| 3 | <p>Describe what a computer is (input > process > output).</p> <p>Explain the difference between input and output devices on a computer.</p> <p>Know where to save and open files (e.g. in shared folder).</p> <p>Save files with appropriate names.</p> <p>Use a keyboard effectively to type in text.</p> <p>Use left-, right- and double-click on the mouse.</p> <p>Add an image to a document from the internet.</p> <p>Resize and move an image in a document.</p> <p>Use a search engine to find simple information.</p> <p>Recognise that school computers are connected.</p> | <p>Present ideas and information by combining media independently, e.g. text and images.</p> <p>Design and create simple digital content for a purpose/audience, e.g. poster.</p> <p>Edit digital content to improve it, e.g. resize text.</p> <p>Identify the features of a good piece of digital content.</p> <p>Explain why we use technology to create digital content.</p> <p>Recognise why we use different types of media to convey information, e.g. text, image, audio, video.</p> | <p>Recognise charts, pictograms and databases, and why we use them.</p> <p>Present information using a suitable chart</p> <p>Explore a record card database to find out information.</p> <p>Use filters in a database to find out specific information.</p> <p>Name the key parts of a database, e.g. record, field, search.</p> <p>Answer questions about information in a database.</p> <p>Name some benefits of using a computer to create charts and databases.</p> <p>Recognise that search engines store information in databases.</p> | <p>Predict the outcome of a block or textbased program (Scratch/Logo).</p> <p>Successfully modify an existing program, e.g. change background, number of times things happen.</p> <p>Identify repeated steps in a program or algorithm.</p> <p>Create examples of algorithms containing count-controlled loops.</p> <p>Use a count-controlled loop (e.g. repeat 3 times) to make a program more efficient.</p> <p>Recognise that we can create an algorithm to help plan out a program.</p> <p>Recognise a forever loop in a program or algorithm.</p> <p>Use a forever loop in a program to keep something happening.</p> <p>Identify errors in a block or text-based program and correct them.</p> <p>Recognise that different inputs can be used to control a program.</p> |

| Year 3 Digital Literacy | |
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| <p>Explain why we need to keep our password safe.</p> <p>Recognise that digital content belongs to the person who first created it, but we can give permission for others to use it.</p> | <p>Recognise when to share personal information and when not to.</p> <p>Recognise that some people lie about who they are online.</p> <p>Are aware that games and films have age ratings.</p> |

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| 4 | <p>Recognise that you can organise files using folders.</p> <p>Explain what a good file name would look like.</p> <p>Delete and move files.</p> <p>Use key parts of a keyboard effectively, e.g. shift, arrow keys, delete).</p> <p>Know how to copy and paste text or images in a document.</p> <p>Crop an image and apply simple filters.</p> <p>Use a search engine to find specific information.</p> <p>Recognise that school computers are connected together on a network.</p> | <p>Collect, organise and present information using a range of media.</p> <p>Design and create digital content for a specific purpose, e.g. poster, animation.</p> <p>Edit digital content to improve it according to feedback.</p> <p>Identify the features of a good piece of digital content and apply these in own design.</p> <p>Explain the benefits of using technology to present information.</p> <p>Know where to find copyrightfree content, e.g. creative commons images.</p> <p>Collaborate with peers using online tools, e.g. blogs, Google Drive</p> | <p>Draw conclusions from information stored in a database, chart or table.</p> <p>Design a questionnaire and collect a range of data on a theme.</p> <p>Choose appropriate formats to present data to convey information.</p> <p>Recognise that school computers are connected together on a network.</p> <p>Recognise that the Internet is made up of computers and other digital devices connected together all around the world.</p> <p>Know that you use a web browser to access information stored on the internet.</p> <p>Appreciate that you need to use specific software to work with video, images, audio etc.</p> | <p>Create a program using a range of events/inputs to control what happens.</p> <p>Recognise that we can decompose a problem into smaller parts to help solve it.</p> <p>Explain when to use forever loops and count-controlled loops, and use them in programs.</p> <p>Recognise selection in a program or algorithm.</p> <p>Use selection in algorithms in programs to alter what happens when a condition changes, e.g. if...then...</p> <p>Design a program for a purpose. Decompose into parts and create an algorithm for each one.</p> <p>Recognise common mistakes in programs and how to correct them.</p> |

| Year 4 Digital Literacy | |
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| <p>Remember and use an individual password.</p> <p>Recognise what kinds of websites are trustworthy sources of information.</p> | <p>Recognise the benefits and risks of different apps and websites.</p> <p>Recognise that the media can portray groups of people differently.</p> <p>Can rate a game or film they have made and explain their rating.</p> |