West Green Primary Computing Progression

Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computing Systems and Networks	 To recognise technology at home and in school To begin to understand how technology is used To begin to understand about safety and technology 	 To choose a piece of technology to do a job To recognise that some technology can be used in different ways To identify the main parts of a computer To use a mouse in different ways To show how to use technology safely To use a keyboard to type To use the keyboard to edit text 	 To describe some uses of computers To identify information technology beyond school To identify information technology in school To show how to use information technology safely To explain how information technology helps us To recognise choices are made when using information technology 	 To identify input and output devices To explain that a computer system accepts an input and processes it to produce an output To explain how a computer network can be used to share information To explain the role of a switch, server and the wireless access point in a network To identify network devices around me, recognising how digital devices can change the way we work To explain how networks can be connected to other networks 	 To describe how networks physically connect to other networks To recognise how networked devices, make up the internet To outline how websites are shared via the WWW, describing how content can be added and accessed, and created by people To evaluate the consequences of unreliable content 	 To explain that computers can be connected together to form systems To recognise the role of computer systems in our lives To recognise how information is transferred over the internet To explain how sharing information online lets people in different places work together, and evaluate To contribute to a shared project online 	 To compare results from different search engines, refining my search To demonstrate that different search terms produce different results To explain that search terms need to be chosen carefully To evaluate the results of search terms, understanding how they are ranked To identify that results from search engines can include adverts, and that the adverts could be targeted To identify different ways to communicate without technology To list methods of communication using the internet To choose an appropriate method of internet communication for a given purpose To evaluate different methods of online communication To explain which types of media can be shared through the internet To explain that communicating through the internet can be public or private To decide what I should/Should not share To classify internet communication by messenger and recipient or audience.

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To explore the IWB, Ipads and computers to paint pictures, exploring what the tools and functions do To take pictures on cameras and Ipads To explore typing with an adult	 To use a computer to paint a picture To open a word processor To use basic tools to create an image, seeing what different freehand tools do To use a wider variety of tools to create images To use letter, number, and Space keys to enter text into a computer To use punctuation and special characters To use the backspace key to remove text To position the text cursor in a chosen location To use undo To select text To choose options to achieve a desired effect To change the appearance of text on a computer To explain why tools were chosen To compare typing/painting on a computer to writing/painting on paper. 	 To know use a digital device to take a picture To know how to hold a device safely and responsibly To make choices then taking a photograph, including: how to focus a camera and zoom in and out To review photographs taken and decide how to improve them To delete poorquality images To edit a photo recolour and crop To use a computer to create, review and refine a piece of music To connect images with sound To use a computer to experiment with pitch 	 To explain what animation is To plan, play, review, improve and evaluate an animation, using a storyboard To capture an image To use the onion skinning tool to review subject position To move a subject between captures To add media to enhance an animation To show that a page orientation can be changed To add text to a placeholder To organise text and image placeholders in a page layout To edit text in a placeholder To choose appropriate page settings and consider how layouts suit different purposes To choose fonts and apply effects to text To add and remove images to and from the placeholders To move, resize and rotate images To review a document, considering the benefits of desktop publishing 	 To record sound, play it back and identify the inputs and outputs required To understand that a digital recording is stored as a file To edit audio To show different types of audio can be combined and played together To evaluate editing choices To use a computer to (further) manipulate images, describing how they can be changed for different uses To change the composition of an image To choose appropriate tools to retouch an image, and recognise not all images are real To evaluate how changes can improve an image 	 To create graphical objects on a computer screen, identifying drawing tools can produce different outcomes To add or remove objects To duplicate an image To select or delete an object To recognise drawings can consist of layers To select multiple objects, grouping to make them easier to work with To combine objects/shapes To evaluate my drawing To review existing video content and why it's effective To plan and create a storyboard To identify devices that record video To capture (using a range of techniques), and edit/reshoot videos To save and export a video file To evaluate my video, thinking how my choices will impact the final outcome 	 To create, develop and improve 3D graphical objects on a computer screen, and know how to manipulate them To alter the view of the 3D space To compare working digitally with 2D and 3D objects To identify physical objects can be broken down into a collection of 3D objects To review an existing website To plan and create a new blank web page To consider ownership and use of images To add text and set the style on a web page To embed media in a web page To add web pages to a website To preview a web page (different screen sizes) To outline the need for a navigation path To insert hyperlinks between pages, and to another people's work

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und pic To a cl with add cree sim pie dat col tak etc tak who bee	derstand ctograms work as class, and th an ult to eate a nple ece of ta llection — ke photos c. begin to k about nat has en llected	 To group objects to answer questions To describe a group of objects (based on commonality) To show that collected data can be counted To identify some attributes of an object To collect simple data To describe the properties of an object To choose an attribute to group objects by To explain that objects can be grouped by similarities (attribute) 	 To show I can enter data onto a computer To recognise that people, animals and objects can be described by attributes To use a computer to view data in different formats To use pictograms to answer single-attribute questions To use a computer to answer comparison questions (graphs, tables) To explain we can present information using a computer 	 To identify, create, retrieve and compare information from different levels of the branching database To create questions with yes/no answers To explain why it is helpful for a database to be well structured To compare information between two different presentation ways 	 To identify data that can be gathered over time, and suggest questions that can be answered To use a digital device to collect data automatically, explain that a data logger collects 'data points' from sensors over time To import data sets and use a computer to sort the data To identify the data needed to answer questions, and draw conclusions from this 	 To order, sort and group data cards To design a structure for a flat-file database To choose different ways to view data To ask questions that need more than one attribute to answer To choose which attribute to sort data by to answer a given question To choose which attribute and value to search by to answer a given question (operands) To choose multiple criteria to search data to answer a given question (AND/OR) To select an appropriate graph to visually compare data, explaining the benefits of using a computer to create graphs To choose suitable ways to present information to other people 	 To explain the relevance of data headings To build a data set in a spreadsheet application To recognise that data can be calculated using different operations To recognise that changing inputs also change outputs To apply formulas to data, including duplication To create a spreadsheet to plan an event To choose suitable ways to present data, such as a table or graph.

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set end pla • To (or und mo are • To tha cau	begin to follow a c of instructions to d up at a certain nee explore beebots equivalent), to derstand they ove when buttons e pressed begin to be aware at their actions use Ipads, mputers, toys etc. do something	 To explain what a command will do and act these out To choose a series of words that can be enacted as a program (forwards, backwards, left, right) To plan a simple program, finding more than one solution to a problem To choose a series of commands that can be run as a program To run a program on a device To choose a command for a purpose To identify the effect of changing a value To explain that each Sprite has its own instructions 	 To choose a series of words that can be enacted as a sequence To explain what happens when we change the order of instructions To choose a series of commands that can be run as a program To trace a sequence to make a prediction To explain programming projects can have code and artwork To test a prediction by running the sequence To create and debug a program that I have written To design, explain, run and change a program on a device 	 To build a sequence of commands, understanding they have an outcome To combine commands in a program To order commands in a program To create a sequence of commands, from a task description. to produce a given outcome To explain, create, adapt, develop, then identify and fix bugs in a program, designing and creating a maze-based challenge 	 To identify accuracy in programming is important To write an algorithm to produce a given outcome To decompose a task into small steps To use and modify a count-controlled loop to produce a given outcome, then develop this in a different programming environment To use an indefinite loop to produce a given outcome, modifying where needed To recognise tools that enable more than one process to be run at the same time (concurrency) To create two or more sequences that run at the same time 	 To know what an infinite loop does, using it to program and control To write a program that includes count-controlled loops To create a condition-controlled loop, and explain it can stop when that condition is met To use a condition in an 'if then' statement to start an action To use selection to switch the program flow in one of two ways To use a condition in an 'ifthenelse' statement to produce given outcomes To create/design a program that uses selection, and evaluate it To explain how selection directs the flow of a program 	 To define a variable as something that is changeable To explain why a variable is used in a program To decide where in a program to change a variable To design a project that builds on a given example, using this to create and evaluate my project To create a program to run on a controllable device To explain that selection can control the flow of a program To update a variable with a user input To use a conditional statement to compare a variable to a value To design and develop a program that uses inputs and outputs on a controllable device

Please refer to our PSHE progression overview and scheme of work to see our progression of 'Media Literacy and Digital Resilience'. We ensure we make links to these when teaching these subject areas, and ensure understanding during computing sessions, when appropriate.