



COMPUTING PROGRESSION OF KNOWLEDGE AND SKILLS

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Online Safety	<ul style="list-style-type: none"> • I can identify rules that help keep us safe and healthy in and beyond the home when using technology. • I can give some simple examples. 	<ul style="list-style-type: none"> • I can explain rules to keep us safe when we are using technology both in and beyond the home. • I can give examples of some of these rules. 	<ul style="list-style-type: none"> • I can explain simple guidance for using technology in different environments and settings. • I can say how those rules/guides can help me 	<ul style="list-style-type: none"> • I can explain why spending too much time using technology can sometimes have a negative impact on me; I can give some examples of activities where it is easy to spend a lot of time engaged (e.g. games, films, videos). 	<ul style="list-style-type: none"> • I can explain how using technology can distract me from other things I might do or should be doing. • I can identify times or situations when I might need to limit the amount of time I use technology. • I can suggest strategies to help me limit this time. 	<ul style="list-style-type: none"> • I can describe ways technology can affect healthy sleep and can describe some of the issues. • I can describe some strategies, tips or advice to promote healthy sleep with regards to technology 	<ul style="list-style-type: none"> • I can describe common systems that regulate age-related content (e.g. PEGI, BBFC, parental warnings) and describe their purpose. • I can assess and action different strategies to limit the impact of technology on my health (e.g. nightshift mode, regular breaks, correct posture, sleep, diet and exercise). • I can explain the importance of self regulating my use of technology; I can demonstrate the strategies I use to do this (e.g. monitoring my time online, avoiding accidents).

Programming	<ul style="list-style-type: none"> I can input a simple sequence of commands to control a digital device with support 	<ul style="list-style-type: none"> I can create a simple program e.g. sequence of instructions for a Bee Bot I can use sequence in programs I can locate and fix bugs in my program 	<ul style="list-style-type: none"> I understand programs execute by following precise and unambiguous instructions I can create programs on a variety of digital devices I can debug programs of increasing complexity I can use logical reasoning to predict the outcome of simple programs 	<ul style="list-style-type: none"> I can design and create programs I can write programs that accomplish specific goals I can use repetition in programs I can work with various forms of input 	<ul style="list-style-type: none"> I can use simple selection in programs I can work with various forms of output I can use logical reasoning to systematically detect and correct errors in programs I can work with various forms of output 	<ul style="list-style-type: none"> Define that conditional statements (selection) are used in computer programs Explain a loop can stop when a condition is met (number of times or event) Explain a that program flow can branch according to a condition Use a condition in an if...then... statement to produce a given outcome Explain an algorithm using sequence, repetition and selection independently Use logical reasoning to detect errors in increasingly complex programs 	<ul style="list-style-type: none"> Define 'variable' as something that is changeable Explain that a variable has a name and a value Identify a variable in an existing program Use a variable in a conditional statement to control the flow of a program Clearly and concisely explain algorithms using sequence, repetition, selection and variables independently Use logical reasoning to detect errors in increasingly complex program
Music	<ul style="list-style-type: none"> I can record sounds with different resources 	<ul style="list-style-type: none"> I can create a sequence of sounds (instruments, apps/software) Create a musical composition using software 		<ul style="list-style-type: none"> I can use smart drums to compose music I can use smart strings to compose music 		<ul style="list-style-type: none"> I can create loops using garage band I can create and edit tracks in garage band 	
Animation	<ul style="list-style-type: none"> I can animate a simple image to speak in role I can create a simple animation to tell a story including more than one character. 	<ul style="list-style-type: none"> I can add filters and stickers to enhance an animation of a character. I can create an animation to tell a story with more than one scene. I can add my own pictures to my story animation. 		<ul style="list-style-type: none"> I can create animations of faces to speak in role with more life-like realistic outcomes. I can improve stop motion animation clips with techniques like onion skinning. I can use animation tools in presenting software to create simple animations. 		<ul style="list-style-type: none"> I can record animations of different characters and edit them together to create an interview. I can add green screen effects to a stop motion animation. I can create flip book animation using digital drawings and export as a Gif or video 	

Art	<ul style="list-style-type: none"> • I can take a photograph • I can use a painting app and explore the paint and brush tools 		<ul style="list-style-type: none"> • I can edit a photo (crop, filters, mark up etc) • I can select and use tools to create digital imagery - controlling the pen and using the fill tool • I can cut images with accuracy to layer on other images. 		<ul style="list-style-type: none"> • I can enhance digital images and photographs using crop, brightness, contrast & resize • I can manipulate shapes to create digital art. 		<ul style="list-style-type: none"> • I can edit a picture to remove items, add backgrounds, merge 2 photos • I can evaluate and discuss images explaining effects and filters that have been used to enhance the media. • Use a 3D drawing app to create a realistic representation of world objects
Publishing			<ul style="list-style-type: none"> • I can create a quiz • I can create different documents to publish information using purple mash 		<ul style="list-style-type: none"> • I can understand the use of different fonts and size of fonts • I can create a news report 		<ul style="list-style-type: none"> • I can create a webpage and embed video.
Broad Casting		<ul style="list-style-type: none"> • I can start to record sounds using a range of devices 		<ul style="list-style-type: none"> • I can record sound and start to add server recording together 		<ul style="list-style-type: none"> • I can plan a podcast • I can use voice memos to create a series of recording • I can add recordings to garage band • I can add a backing track to a podcast 	
Film Making		<ul style="list-style-type: none"> • I can record a film using the camera app. • I can select images and record a voiceover. • I can highlight and zoom into images as I record. 		<ul style="list-style-type: none"> • I can sequence clips of mixed media in a timeline and record a voiceover • I can trim and cut film clips and add titles and transitions • I can independently create a green screen clip. • I can create my own movie trailer. 		<ul style="list-style-type: none"> • I can use cutaway and split screen tools in iMovie. • I can evaluate and improve the best video tools to best explain my understanding. • I can further improve green screen clips using crop and resize and explore more creative ways to use the tool - wearing green clothes and the masking tool. 	
Design			<ul style="list-style-type: none"> • I can create a 3D shape net • I can add a design onto a net • I can start to combine designs 		<ul style="list-style-type: none"> • I can take a variety of pictures from different angles • I can use different programs to alter an image • I can use the rule of thirds 		<ul style="list-style-type: none"> • I can create a design using a variety of nets • I can create a presentation using a choice of software

Data Handling			<ul style="list-style-type: none"> • I can sort digital objects into a range of charts such as Venn diagrams, Carroll diagrams and bar charts using different apps and software. • I can orally record myself explaining what the data shows me. • I can create a branching database using questions 		<ul style="list-style-type: none"> • Collect data using a digital device • Recognise that a sensor can be used as an input device for data collection • Use a larger data set to find information • Use a computer program to sort data by one attribute • Export information and present data in a table and a graph 		
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