



Progression of Skills & Knowledge: Digital & Computing Skills Awards

TRANSFORM TRUST
"Together we Achieve"



Digital Skill	Specified Apps	Specified Apps	Specified Apps
Internet searches (Safari)	I can pick key information from a teacher sharing a webpage.	I can select key information from a selection of teacher shared webpages.	I can search & select key information from reliable sources on the internet.
Photography	Camera (old/New) Sketches School (iOS9)	Photos app (Old/New)	Keynote (iOS12) Photoshop mix-Free Adobe Login (iOS10)
Ebooks & word processing	Notes app (Old/New)	Book creator* £4.99 (VPP 20+ Half Price) (iOS11.4)	Pages (iOS12)
Video Creation	Record a video (Old/New)	Create movie in Clips (iOS13.4)	iMovie (iOS13.4) & Do Ink £4.99 VPP applies (iOS11)
Animation	Draw & Tell HD (iOS8) ChatterKids (iOS9)	Stickbot studio (iOS10) or Stop Motion (iOS9)	Keynote (Everyone Can Create: Movies) (iOS12)
Presenting	Pages in Presenter mode (iOS12)	Keynotes basic (iOS12)	Keynote with animation & transitions (iOS12)
Sound	Keezy (iOS8) Musical me HD! (iOS8)	GarageBand Live Loops (iOS13)	GarageBand Instruments (iOS13)
Podcasts (see Sound)	Voice memos (iOS10)	Anchor (iOS12)	GarageBand (iOS13)
Digital Art	Markup in Camera app & Sketches School (iOS9) basic	Sketches School (iOS9) & Keynote basic (iOS12)	Sketches School, Keynote, Pages & Numbers
Computer Science: Data Handling	Purple Mash units of work allocated to each year group		
Computer Science: Coding	Purple Mash units of work allocated to each year group. Y5 & Y6 Swift Playgrounds (iOS 13.1)		

INTERNET SEARCHES IN SAFARI

Year Group	NC Attainment Targets	BRONZE	SILVER	GOLD
EYFS	Use technology safely and respectfully, keeping personal 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. Recognise common uses of information technology beyond school.	<ul style="list-style-type: none"> ● I can locate & enter what I would like to find out in a search engine. ● I can use reader view on webpages shared by my teacher. ● I can save a photo from a webpage ● I select key information connected to my research. 	<ul style="list-style-type: none"> ● I can screenshot an entire webpage and highlight key information ● I can select the best webpages from a list provided by my teacher for research ● I can use drag and drop to make my research more efficient 	<ul style="list-style-type: none"> ● I can select reliable websites for my research. ● I can use search shortcuts to filter information quickly. ● I can find and select copyright free images and information.
Y1				
Y2				
Y3				
Y4				
Y5				
Y6				

PHOTOGRAPHY

Year Group	NC Objectives	BRONZE Everyone Can Create Early Learners P33-55	SILVER Everyone Can Create Photo P1-31	GOLD Everyone Can Create Photo P32-67
EYFS	Recognise common uses of information technology beyond school.	<ul style="list-style-type: none"> • I can hold the iPad steady to take a photograph in focus. • I can evaluate the quality of my photos & delete ones I don't want. • I can take photos with uncluttered backgrounds. • I can take sharper pictures. • I can take a photo from different angles. • I can edit a photo with simple tools. • I can incorporate shadow into my photos. • I can create different moods in my photos. • I can change photos to black and white & use filters. • I can use mark up to edit a photo. 	<ul style="list-style-type: none"> • I can straighten, rotate and crop photos. • I can adjust the focus & exposure before I take a photo. • I can apply filters to enhance the mood. • I can backlight my subject for a silhouette effect. • I can use markup tools to retouch photos. • I can create an album of related photos. • I can take & select photos using burst mode. • I can apply the long exposure effect. • I can animate photos (Gifs in the Photos app). 	<ul style="list-style-type: none"> • I can hide parts of photos using Instant Alpha (Numbers/Pages/Keynote) • I can build a single composition with multiple photos and other graphic elements. • I can crop, mask, edit and layer photos. • I can tell a story with a series of photos. • I can rearrange and add transition to slides • I can layer text on top of photos in Keynote. • I can use photoshop Mix to combine photos. • I can create a digital photo book in Pages
Y1	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.			
Y2				
Y3	Use technology safely, respectfully & responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.			
Y4	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			
Y5	accomplish given goals, including collecting, analysing, evaluating and presenting data and information.			
Y6				

EBook & Word Processing

Year Group	NC Objectives	BRONZE- Notes	SILVER- Book Creator	GOLD- Pages
EYFS	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<p>I can use the keyboard to add capital letters, start new lines and add simple punctuation.</p> <p>I can delete mistakes.</p> <p>I can use the shift button to add single capital letters.</p> <p>I can change the keyboard layout to add symbols and emojis</p> <p>I can change the format and font size to help improve the layout.</p> <p>I can add a table to my Note</p>		
Y1				
Y2	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.		<p>I can add pictures and videos to an eBook template.</p> <p>I can export my book as an ePub file so people can view and read my content.</p> <p>I can add a Cover page for my eBook.</p> <p>I can change the font type and font size to improve the reader's experience.</p>	
Y3				
Y4				
Y5				
Y6				
				<p>I can make a multimedia document in Pages that has appropriate audio, video and photos.</p> <p>I can create my own eBook templates and design layouts of my eBook.</p> <p>I can add chapters and a contents page to my eBook.</p> <p>I can add hyperlinks & embed online videos into my eBook.</p>

VIDEO CREATION

Year Group	NC Objectives	BRONZE- Camera app Everyone Can Create Early Learners P85-100	SILVER- Clips Everyone Can Create: Video P1-30	GOLD- iMovie P31-45 & Green Screen by Do Ink
EYFS	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<p>I can record, play & delete individual clips.</p> <p>I can choose appropriate settings for my video.</p> <p>I can record and switch the camera around.</p> <p>I can record nearby objects with movement.</p> <p>I can record a slow motion movie.</p> <p>I can record from different angles.</p> <p>I can create simple edit with stickers and emojis.</p>		
Y1	Recognise common uses of information technology beyond school.			
Y2				
Y3	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.			
Y4				
Y5				
Y6		<p>I can make appropriate choices to mood setting of my video.</p> <p>I can select different photo ranges to add into my videos.</p> <p>I can add sound and audio clips to my video.</p> <p>I can add information or productive text to my video.</p> <p>I can add in time-frames.</p> <p>I can trim the video clips.</p> <p>I can create a time lapse Video.</p> <p>I can add motion to photos.</p>	<p>I can choose different aspect ratios for my video that are appropriate for my video choice.</p> <p>I can frame a subject to make it appropriate in my video.</p> <p>I can adjust exposure in my background.</p> <p>I can create Script Writing- in pages.</p> <p>I can use multiple cameras.</p> <p>I can use Green Screen.</p> <p>Importing titles, adding end credits.</p> <p>I can use filters and titles.</p> <p>I can add overlays, cutaway, & split screens.</p> <p>i can trim & cut video clips (editing)</p> <p>I can change the speeds of video & volume of clips.</p>	

ANIMATION

Year Group	NC Objectives	BRONZE: Draw & tell HD & Chatter Kid.	SILVER: Zing Studios & Stop Motion	GOLD: Keynote
EYFS	Recognise common uses of information technology beyond school.	<ul style="list-style-type: none"> ● I can add my voice to bring a photo or object to life. ● I can add characters to a scene to tell a story. 		
Y1				
Y2			<p>I can add a series of photos together to create a short animated movie.</p> <p>I can input my own material via Green Screen.</p>	
Y3	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. 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.			<ul style="list-style-type: none"> ● I can use Magic Move in Keynote. ● I can complete the Augmented Reality challenge in Swift Playgrounds (Y6) ● I can create more complexed animations. ● I can create Motion Paths in Keynote.
Y4				
Y5				
Y6				

PRESENTING TO AN AUDIENCE

Year Group	NC Objectives	BRONZE- Presenter mode in Pages	SILVER- Keynote (Basic)	GOLD- Keynote (Advanced)		
EYFS	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<ul style="list-style-type: none"> ● I can read a script with clear dialogue using Presenter mode in Pages. ● I can position the iPad so I can make eye contact with my audience when reading my script. 				
Y1	Recognise common uses of information technology beyond school.					
Y2						
Y3	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.				<ul style="list-style-type: none"> ● I can create add text to a slide in Keynote. 	<ul style="list-style-type: none"> ● I can build in transitions like Magic Move ● I can embed appropriate web videos that bring my presentation to life. ● I can add entrance and exit animations ● I use presenter notes to help prompt a presentation ● I can use the pen options and laser pen feature when presenting (if appropriate) ● I use intonation in my voice to add effect to my presentation.
Y4					<ul style="list-style-type: none"> ● I can add photos and videos to a slide in Keynote. 	
Y5					<ul style="list-style-type: none"> ● I can create a basic slide deck in keynote that acts as a hook to my audience. 	
Y6		<ul style="list-style-type: none"> ● I can share my keynote in Showbie or with Airdrop. ● I carefully design my slide layout (including font sizes). 				

DIGITAL ART

Year Group	NC Objectives	BRONZE- MarkUp in camera app & Sketches School	SILVER- Sketches School & Keynote	GOLD- Sketches School, Keynote, Pages & Numbers
EYFS	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<p>Everyone can Create Early Learners- refer to drawing books P9, 15, 20, 26</p> <p>I can draw different kinds of lines using a variety of pens & brushes.</p> <p>I can experiment with methods for creating & combining shapes.</p> <p>I can practice making patterns using lines & shapes.</p> <p>I can combine basic shapes to sketch objects.</p> <p>I can use Markup to outline shapes in a photo.</p> <p>I can create my own sketch.</p> <p>I can add text labels to sketches.</p> <p>I can draw a well proportioned face.</p> <p>I can combine shapes to draw human figures.</p> <p>I can add details to drawings that suggest movement & action.</p>	<p>Everyone can Create- refer to drawing books 1, 11, 18, 27, 35, 44, 53, 63, 72, 83</p>	<p>I can use tracing to improve sketching accuracy.</p> <p>I can use shapes to convey a message.</p> <p>I can choose colours to show emotion.</p> <p>I can add style with hand lettering & sketches.</p> <p>I can use the smudge tool to add a blur effect.</p> <p>I can create sketches/diagrams to simplify & represent data.</p> <p>I can design a layout which helps to show information.</p>
Y1	Recognise common uses of information technology beyond school.			
Y2				
Y3	Select, use and combine a variety of software (including internet services)			
Y4	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.			
Y5				
Y6				

SOUND

Year Group	NC Objectives	BRONZE Everyone Can Create Early Learners P85-100	SILVER Everyone Can Create Music P6-70	GOLD	
EYFS	Recognise common uses of information technology beyond school.	Create & record sounds I can record sounds. I can record my voice using Voice Memo. I can explore & play a variety of digital percussion instruments. I can compose & record simple rhythmic patterns while keeping a steady beat. I can evaluate the quality of my tracks. Sequence sounds I can create a sequence of sounds. I can add effects to my voice recording. I can change the volume, length & placement of recorded tracks. I can share my projects with others. I can save and name my tracks. I can edit a sound composition to convey different moods/meaning. I can select audio loops. I can use live loops. Podcasting: I can record a script using a Voice Memo.	I can use basic chord structures & progressions. I can play & record chords & melodies using Touch instruments. I can arrange loops in a Live Loops template to build & record music. I can record my own mix in the Live Loops grid. I can create a sequence of sounds using apps/software (Garage Band). I can edit compositions using technology. I can experiment with live loops to create a song. I can create a outcome which is purposeful, eg. A song which shows meaning/rap/poetry. Podcasting: Using Anchor APP: I can think about my target audience as I record my voice. I can record a script using Anchor I can include interludes in my podcast. I can include songs and sounds in my podcast.	I can compose, edit, evaluate and refine my own composition, considering: volume, pitch, fade, effects. I can create an outcome which is purposeful and to be shared with an audience, e.g. soundtrack, rap, podcast. Podcasting: Using Garage Band: I can add sound effects and alter the volume to have the desired impact. I can trim and edit my podcast. I can record my podcast in Garage Band.	
Y1					
Y2					
Y3					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.
Y4					
Y5					
Y6					

National Curriculum Attainment Targets KS1 & KS2 Coverage

Key Stage Attainment Targets	<u>Digital Literacy</u>		<u>Computer Science</u>			<u>Information Technology</u>		
Key Stage One	Use technology safely and respectfully, keeping personal 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.	Recognise common uses of information technology beyond school.	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Create and debug simple programs.	Use logical reasoning to predict the behaviour of simple programs.	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.		
Key Stage Two	Use technology safely, respectfully & responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.		Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.	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.
Themes of Learning We Cover	Online Safety Internet Searches using Safari	Photography Animation Presenting Video Creation Sound Podcasting Digital Art Animation	Coding (Purple Mash Units of work assigned for each year group) Y5 & Y6 Swift Playgrounds. Animation		Podcasting Presenting Video Creation EBooks	Databases EBook & Word Processing Animation Presenting Photography Video Creation Sound & Podcasts Digital Art		

CODING Success Criteria & Apple Swift Playgrounds

Year Group	<u>KS1 success criteria for Coding</u>		<u>KS2 success criteria for Coding</u>
EYFS	See additional document	Y3	<p>Purple Mash: 3.1 Coding</p> <p>I can create a design that represents a sequential algorithm.</p> <p>I can use a flowchart design to create the code.</p> <p>I can explain what object, action, output, control and event are in computer programming.</p> <p>I can explain how my program simulates a physical system e.g. my vehicles move at different speeds & angles.</p> <p>I can describe what I did to make my vehicle change angle/speeds.</p> <p>I can explore 'if statements'.</p> <p>I can create a program with a character that repeats actions using a timer & repeat command.</p> <p>I can explain what debugging means & debug simple programs.</p> <p>I can use a design document to debug a program.</p> <p>I understand the importance of saving my work after each functioning iteration of the program I'm making.</p>
Y1	<p>I can explain what coding means & how this links to everyday life.</p> <p>I can explain what a block of code is.</p> <p>I can read blocks of code.</p> <p>I can design a simple program to control movement of a character.</p> <p>I can program a sound to play when objects collide.</p>	Y4	<p>I can use sketching to design a program & reflect upon my design.</p> <p>I can use a sketch/storyboard to represent a program design & algorithm.</p> <p>I can create an 'if/else' statement.</p> <p>I can explain what a variable is in programming.</p> <p>I can set/change the variable values.</p> <p>I can interpret a flowchart that depicts an if/else flowchart.</p> <p>I can show how a character repeats an action & explain how I caused it to do so.</p> <p>I can program a character respond to user keyboard input.</p> <p>I can make a timer & counting machines using variables (to print a new number to the screen every second).</p> <p>I can create an algorithm, modelling the sequence of a simple event.</p> <p>I can manipulate graphics in the design view to achieve a desired look for the program.</p> <p>I can use an algorithm when making a simulation of an event on the computer.</p> <p>I can show an understanding of decomposition & abstraction in computer science.</p> <p>I can remove details from my program which don't contribute to the aim of the task.</p>
Y2	<ul style="list-style-type: none"> • I can explain that an algorithm is a set of instructions. • I can describe the algorithms I have created. • I can debug simple programs & I know what debugging means. • I can create programs using different objects. • I can plan & use algorithms in programs. • I can create a more complex program that tells a story. • I can code a program using a variety of objects, actions, events & outputs. 	Y5	<ul style="list-style-type: none"> • Swift Playgrounds: Learn to Code 1 • I can use commands & sequences in an everyday situation. • I can debug with code. • I can code using functions and for loops. • I can use conditional code, Booleans & logical operators. • I can use 'while loops'. • I can code using algorithms
		Y6	<ul style="list-style-type: none"> • Swift Playgrounds: Learn to Code 2 • I can use variables • I can use types & initialization • I can use parameters • I can use arrays • I can build my own world using all of the skills above & create a story to accompany the world.

Data Handling: Pictograms, Spreadsheets & Databases Success Criteria

Year Group	1st Unit	2nd Unit
EYFS	See additional document	See additional document
Y1	<p>Unit 1.3 Pictograms: I can contribute to collecting class data. I can discuss what the pictogram shows. I can use a pictogram to record the results of an experiment.</p>	<p>Unit 1.8 Spreadsheets: I can navigate around a spreadsheet. I can explain what rows & columns are. I can save & open sheets. I can enter data into cells. I can find & add clipart. I can use the 'move cell' & 'lock cell' tool. I can give the images a value, add a count tool. I can add the speak tool. I can use a spreadsheet to work out a fair way to share items.</p>
Y2	<p>Unit 2.3 Spreadsheets: I can use copying & pasting to help make spreadsheets. I can use the totalling tools. I can use a spreadsheet to solve a mathematical puzzle & add amounts. I can create a table of data on a spreadsheet. I can use the data to create a block graph.</p>	<p>Unit 2.4 Questioning: I can use yes/no questions to separate information. I can design a binary tree to sort pictures. I can use a database to answer simple & more complex questions.</p>
Y3	<p>Unit 3.3 Spreadsheets: I can create a table of data on a spreadsheet. I can use a spreadsheet to automatically create charts & graphs. I can use 'more than', 'less than' and 'equals' tools. I can describe a cell location & find locations. Unit 3.8 Graphing: I can set up a graph & enter data. I can present results in different graphical formats.</p>	<p>Unit 3.6 Branching Databases: I can sort objects using just 'yes' or 'no' questions. I can complete a branching database. I can choose a topic for a branching database. I can use & debug my own branching database.</p>
Y4	<p>Unit 4.3 Spreadsheets (Line graphs, formula/format cells): I can format numbers & add a formula to make a calculation. I can use the timer, random number & spin button tools. I can use a series of data from a spreadsheet to create a line graph. I can use a line graph to answer questions. I can use a spreadsheet for budgeting.</p>	(No extra unit)
Y5	<p>Unit 5.3 Spreadsheets: I can create a formula in a spreadsheet to convert a measurement. I can use the count tool. I can use a spreadsheet to work out the area & perimeter of rectangles. I can use formula to help me solve real-life problems. I can create formulas that e.g. will work out how many days there are in x number of weeks/ years I can use a spreadsheet to plan an event.</p>	<p>Unit 5.4 Databases I can search for information in a database. I can enter data into a class database. I can create my own database & add records. I can word questions so that they can be answered using a search of my database.</p>
Y6	<p>Unit 6.3 Spreadsheets: I can create a spreadsheet to answer questions related to probability. I can take copy & paste shortcuts. I can problem solve using the count tool. I can create spreadsheets 'in real life' to e.g. work out the price of different items in a sale. I can use the formula wizard to create formulae. I can use a spreadsheet to solve a problem. I can make practical use of a spreadsheet to help plan actions & come up with solutions.</p>	