

This document outlines the progression of computing objectives, separated into the following areas:

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E-Safety	Early Years:	Key Stage One:	Lower Key Stage Two:	Upper Key Stage Two:
	<ul style="list-style-type: none"> I know that there are right choices and wrong choices. (CyA:Sp1) I can discuss a moral dilemma in a story. (CyA:Sp1) I can discuss stranger danger. (CyA:Sp1) 	<p>E-Safety Rules</p> <ul style="list-style-type: none"> I know how to stay safe online. (CyA:Au1; CyB:Au1) I know rules to keep us safe and healthy when using technology in and outside of my home. (CyA:Sp1; CyB:Au1) I can safely search the internet for a picture. (CyA:Au2) I can explain what might happen if I share a picture on the internet. (CyB:Au1) I know how to use technology safely. (CyB:Au1) 	<p>E-Safety Rules</p> <ul style="list-style-type: none"> I can teach my E-Safety knowledge to others. (CyA:Au1; CyB:Au1) I know that people contacting you online may not be who they say they are. (CyB:Au1) 	<p>E-Safety Rules</p> <ul style="list-style-type: none"> I can share my E-Safety learning with others. (CyA:Au1)
		<p>Keeping Information Private</p> <ul style="list-style-type: none"> I know why I must keep my information private online. (CyA:Au2) I know why usernames, passwords and locking my screen are important. (CyA:Sp1) I can identify what personal information is and the importance of not sharing this. (CyB:Au1) I can lock my computer screen. (CyA:Sp1) 	<p>Keeping Information Private</p> <ul style="list-style-type: none"> I know which information should be kept private. (CyA:Au1) I know different ways that information can be found online about people. (CyA:Au1) I can discuss different levels of privacy. (CyA:Au1) I know ways that personal information may be stolen. (CyB:Au1) 	<p>Keeping Information Private</p> <ul style="list-style-type: none"> I know the importance of privacy settings. (CyA:Au1; CyB:Su1) I can create a strong password. (CyA:Au1) I can customise my privacy settings. (CyA:Au1)
		<p>Reporting Problems</p> <ul style="list-style-type: none"> I know which adults in my life can help me if I have a problem online. (CyB:Au1) 	<p>Reporting Problems</p> <ul style="list-style-type: none"> I know when I need to get help or talk things through with a trusted adult. (CyA:Sp1) I know why being brave and bringing adults into the conversation is important. (CyA:Sp1) I know ways to be brave and take action. (CyA:Sp1) I know that I am not on my own if I see content online that makes me feel uncomfortable. (CyA:Sp1) I can work out a plan of action for if I see something disturbing online. (CyA:Su1) 	<p>Reporting Problems</p> <ul style="list-style-type: none"> I know that seeking help is a sign of strength. (CyA:Sp1) I know about online tools for reporting abuse. (CyA:Sp1) I know how to respond to bullying online. (CyB:Au1)

		<p>Online Conduct</p> <ul style="list-style-type: none"> • I know that I can be an ‘upstander’ by choosing not to join in. (CyB:Au1) • I know that people online may not tell the truth. (CyB:Au1) • I can explain how something online might make someone feel worried or sad. (CyB:Au1) • I can identify the effect of other people’s actions online and consider ways of keeping others and myself safe. (CyB:Au1) • I can recognise feelings I might encounter online and how my body might tell me if something doesn’t ‘feel right’. (CyB:Au1) • I can explain the difference between a secret and a surprise. (CyB:Au1) 	<p>Online Conduct</p> <ul style="list-style-type: none"> • I know how to create a positive online presence. (CyA:Au1) • I can consider how people will interpret what I mean when I post online. (CyA:Au1) • I can consider what I need to ‘keep outside the frame’ when I post online. (CyA:Au1) 	<p>Online Conduct</p> <ul style="list-style-type: none"> • I know how someone else’s actions can affect me. (CyA:Au1) • I know how words can affect people. (CyB:Au1)I can suggest different ways to respond to bullying online. (CyB:Au1) • I can turn negative interactions to positive ones. (CyB:Au1) • I can interpret emotions behind texts and messages. (CyB:Au1) • I can model good behaviour to others. (CyB:Au1) 						
			<p>Evaluating Content</p> <ul style="list-style-type: none"> • I know how search engines display results. (CyB:Au1) • I can evaluate if online information is credible. (CyB:Au1) • I can start to detect fake news and disinformation. (CyB:Au1) • I can apply some methods to get better search results. (CyB:Au1) 	<p>Evaluating Content</p> <ul style="list-style-type: none"> • I know why social media, web search and YouTube are free to use. (CyB:Sp1) • I know the meanings of bias and fake news. (CyB:Sp1) • I know that real damage and pain can be caused by fake news. (CyB:Sp1) • I know what a scam email is. (CyB:Su1) 						
wrong choices right choices	moral stranger	e-safety password	safety upstander	bystander honest	private privacy online presence	cyberbullying personal	information search engine	privacy settings reporting	cyberbullying interactions	secure

	Early Years:	Key Stage One:	Lower Key Stage Two:	Upper Key Stage Two:
Computer Science	<ul style="list-style-type: none"> I know what an instruction is. (CyA:Su2) I know prepositions such as: next to, under, over, on top of, forward, backward, right and left. (CyA:Su2) I can plan where I want my Beebot to travel. (CyA:Su2) I can give a Beebot a simple instruction. (CyA:Su2) 	<ul style="list-style-type: none"> I know what an algorithm is. (CyA:Au2; CyB:Au2;CyB:Su2) I know what 'debugging' means. (CyA:Au2) I can use directional instructions to create algorithms. (CyA:Au2) I can plan and develop algorithms. (CyA:Au2) I can solve problems by splitting them into smaller parts. (CyA:Au2) I know that an algorithm is a list of instructions. (CyA:Su2) I can program a sprite. (CyA:Su2) I can make sprites move at different speeds. (CyA:Su2) I can program a sprite to move and hide. (CyA:Su2) I can change the background automatically on Scratch Jnr. (CyA:Su2) I can make my program repeat. (CyA:Su2) I can use a repeat block to code a looped action. (CyA:Su2) I can use sound and motion together on Scratch Jnr. (CyA:Su2) I can animate a sprite. (CyB:Au2) I can make a sprite appear and disappear. (CyB:Au2) I can use a repeat block. (CyB:Au2) I can control a sprite's actions. (CyB:Au2) I can change the size of a sprite. (CyB:Au2) I can use messaging to control a sprite. (CyB:Au2) I can program a character to grow or shrink. (CyB:Su2) I can use instructions to make characters move at different speeds. (CyB:Su2) I can use a repeat instruction to make a sequence of instructions run more than once. (CyB:Su2) I can program my design to play a recorded sound. (CyB:Su2) I can use the Broadcast code to use speech in a program. (CyB:Su2) I can use sequencing in a program. (CyB:Su2) 	<ul style="list-style-type: none"> I know what an algorithm is. (CyA:Sp1; CyB:Sp2) I can visualise an algorithm before running the code. (CyA:Sp1) I can fix mistakes (debugging). (CyA:Sp1) I know what coding is. (CyA:Sp2) I know what a loop is. (CyA:Sp2) I know what events and actions are. (CyA:Sp2)I can construct simple sequences. (CyA:Sp2) I can debug a mistake. (CyA:Sp2) I know what a condition is. (CyA:Su1) I know what negative numbers do to code. (CyA:Su1)I can understand basic conditions. (CyA:Su1) I can create a simple algorithm. (CyA:Su1) I can create simple movements with blocks. (CyA:Su1) I know some information about what HTML coding is. (CyA:Su2) I can create a sprite that is computer controlled. (CyA:Su2) I can use the random value. (CyA:Su2) I can use the if button to code. (CyA:Su2) I can use the wait function. (CyA:Su2) I know what abstraction is. (CyB:Sp2) I know how functions can make coding efficient. (CyB:Sp2) I know what a nested loop is. (CyB:Sp2) I know about variables, input and output. (CyB:Sp2)I can identify bugs and how to fix them. (CyB:Sp2) I can identify loops. (CyB:Sp2) I know how to debug to fix a problem. (CyB:Su2) I can create a sprite from Scratch. (CyB:Su2) I can program my sprite to move around the maze. (CyB:Su2) I can use a repeat block and 'sensing' to send the sprite back to the start if they touch a wall. (CyB:Su2) I can use a 'broadcast' to unlock a secret door. (CyB:Su2) I can use a 'broadcast' to go to level 2. (CyB:Su2) I can edit backgrounds and sprites. (CyB:Su2) 	<ul style="list-style-type: none"> I can code using commands and sequences. (CyA:Sp1) I can debug with code. (CyA:Sp1) I can code using functions and loops. (CyA:Sp1) I know how to create custom assets. (CyA:Sp2) I know how to save and import internet assets. (CyA:Sp2) I can code sprites correctly to make a working game. (CyA:Sp2) I can create a score system/lives system which tells the game to stop when all lives are gone. (CyA:Sp2) I can create a countdown timer. (CyA:Sp2) I can create a music file to use in my game. (CyA:Sp2) I can export/import a music file. (CyA:Sp2) I can create a title screen and a game over screen. (CyA:Sp2) I know how to create a multi-level maze game. (CyA:Su2) I can create a 3D environment using Microsoft Kodu. (CyA:Su2) I can create and control a sprite on Microsoft Kodu. (CyA:Su2) I can create scenery on Microsoft Kodu. (CyA:Su2) I can build a maze game on Microsoft Kodu. (CyA:Su2) I can add collectibles and enemies in my game. (CyA:Su2) I know what HTML is. (CyB:Su1) I know that Python is the language that powers websites and apps. (CyB:Su1) I know how to design programs to solve challenges with functions and loops. (CyB:Su2) I can describe, demonstrate and code using commands and sequences. (CyB:Su2) I can describe, demonstrate and debug with code. (CyB:Su2) I can describe, demonstrate and code using functions and loops. (CyB:Su2) I can code using algorithms. (CyB:Su2) I can code using conditional code and logic. (CyB:Su2)
	instruction over left next to forward right under backward	algorithm instructions disappear directional algorithm code language appear control repeat	code blocks variables coding HTML input sequences random value debug loop if repetition condition wait function sensing	commands import blogging debug export logic loops 3D environment sequence functions control custom assets decomposition

	Early Years:			Key Stage One:			Lower Key Stage Two:			Upper Key Stage Two:		
Digital Literacy	<ul style="list-style-type: none"> I know a selection of digital devices. (CyA:Su1) I know that I can access things on a digital device. (CyA:Su1) I can use a keyboard to type letters. (CyA:Su1) I can use a mouse to target and select options on a screen. (CyA:Su1) I can drag an object on a screen using a mouse. (CyA:Su1) I know a selection of digital devices that are used by lots of different people. (CyA:Sp2) I know that I can access things on a digital device. (CyA:Sp2) I can talk about how different types of technology can help us. (CyA:Sp2) I can use digital applications to help me with my reading, writing and maths learning. (CyA:Sp2) I know a selection of digital devices. (CyA:Su1) I know that I can access things on a digital device. (CyA:Su1) I can use a touchscreen to draw lines. (CyA:Su1) I can use a touchscreen to draw shapes. (CyA:Su1) I can use a touchscreen to draw patterns. (CyA:Su1) I can take a photo on a digital device. (CyA:Su1) I can make music on a digital device. (CyA:Su1) I can record a video on a digital device. (CyA:Su1) 			<ul style="list-style-type: none"> I know how to log in on a Windows computer. (CyA:Su1) I know how to read the capital letters on a keyboard. (CyA:Su1) I know how to lock my screen. (CyA:Su1) I can use a mouse to open a program. (CyA:Su1) I can click and drag objects on a screen. (CyA:Su1) I can type my name on a computer. (CyA:Su1) I can save my work to a file. (CyA:Su1) I can open my work from a file. (CyA:Su1) I can delete letters. (CyA:Su1) I can find the symbols for cut, copy and paste. (CyA:Su1) I can experiment with copying text and images. (CyA:Su1) I can use my mouse to click and drag. (CyA:Sp1) I can start to touch type on a device. (CyA:Sp1) I can cut, copy and paste. (CyA:Sp1) I know what the internet is. (CyB:Sp1) I know that computers are used in lots of different inventions. (CyB:Sp1) I know how to use computers safely when I'm online. (CyB:Sp1) I can identify some icons on a computer. (CyB:Sp1) I can discuss different uses of computers. (CyB:Sp1) I can place my fingers in the correct positions when typing on the keyboard. (CyB:Sp1) 			<ul style="list-style-type: none"> I know what a computer network is and how computer networks can provide multiple services. (CyB:Su2) I know how information is exchanged between devices. (CyB:Su2) I know that the internet is the physical connection between computers and networks. (CyB:Su2) I know that devices on a network have a unique address. (CyB:Su2) I can use email. (CyB:Su2) I can send an email. (CyB:Su2) I can reply to an email. (CyB:Su2) I can attach a file or photo to an email. (CyB:Su2) I can use email to communicate ideas. (CyB:Su2) 			<ul style="list-style-type: none"> I know which tools I need for different features. (CyB:Su2) I can draw and manipulate a 2D shape. (CyB:Su2) I can use the measure tool in SketchUp to draw shapes. (CyB:Su2) I can use inference points to draw lines and shapes. (CyB:Su2) I can double click to copy, push/pull and offset. (CyB:Su2) I can import models from the 3D warehouse. (CyB:Su2) I can copy and manipulate 3D models. (CyB:Su2) I can use all of the main tools on the SketchUp toolbar. (CyB:Su2) I know the key elements of a spreadsheet. (CyA:Su2) I know how to use a cell reference for recalculation. (CyA:Su2) I know that mathematical problems can be explored using a spreadsheet. (CyA:Su2) I know how hashtag searching works. (CyA:Su2) I can enter formulae into a spreadsheet. (CyA:Su2) I can answer 'what if' questions using a spreadsheet. (CyA:Su2) I can use SUM to calculate a set of numbers in a range of cells. (CyA:Su2) I know how to start an app building project. (CyB:Sp2) I know how to create buttons with website links. (CyB:Sp2) I know how to create and link different screens. (CyB:Sp2) I can use the 'insert' feature. (CyB:Sp2) I can use the 'resize' feature. (CyB:Sp2) I can see and test my app. (CyB:Sp2) I can debug my app to fix any issues. (CyB:Sp2) I can upload my app to a cloud location. (CyB:Sp2) 		
	device mouse type	keys touch click	technology touchscreen	memory login type capital lower case	keys keyboard hardware router	data browser type	email	network	IP address	simulation tools double click import	manipulate spreadsheet cell reference	formulae calculate

	Early Years:			Key Stage One:			Lower Key Stage Two:			Upper Key Stage Two:		
Information Technology	<ul style="list-style-type: none"> I know a selection of digital devices. (CyA: Au2) I know that I can access things on a digital device. (CyA: Au2) I can record my voice and make it sound fast or slow. (CyA: Au2) I can explore making musical sequences. (CyA: Au2) 			<ul style="list-style-type: none"> I know how to use a search engine to find images. (CyA: Sp2) I know how to send (AirDrop) files. (CyA: Sp2) I can use Google search to find images. (CyA: Sp2) I can save images from the internet. (CyA: Sp2) I can create folders on the iPad. (CyA: Sp2) I can rename folders on the iPad. (CyA: Sp2) I can rename files on the iPad. (CyA: Sp2) I know what an illustration is and that I can use a computer programme to create a digital illustration. (CyA: Su1) I can create an illustration using an illustration programme. (CyA: Su1) I can save an illustration. (CyA: Su1) I can edit an illustration. (CyA: Su1) I can create an eBook. (CyA: Su1) I can add illustrations to an eBook. (CyA: Su1) I know how to open a word processing application. (CyB: Sp2) I know how to save word processing files. (CyB: Sp2) I can type in the word processing application. (CyB: Sp2) I can open the PowerPoint application. (CyB: Sp2) I can type on the PowerPoint application. (CyB: Sp2) I can create a presentation with animations. (CyB: Sp2) I can create a presentation with transitions. (CyB: Sp2) I know that photo editing is done in layers. (CyB: Su1) I know what a transparent layer is. (CyB: Su1) I can take a digital photograph. (CyB: Su1) I can save my digital photograph. (CyB: Su1) I can organise my saved photos. (CyB: Su1) I can use a photo editing application. (CyB: Su1) I can create a PicCollage using edited photos. (CyB: Su1) I can send my photos using AirDrop. (CyB: Su1) I can add and edit layers. (CyB: Su1) 			<ul style="list-style-type: none"> I know and understand how search results are ranked, and I can evaluate their digital content. (CyA: Au2) I know some information about plagiarism, copyright and how to acknowledge a source. (CyA: Au2) I can use digital computer mapping to locate countries and geographical features. (CyA: Au2) I can use the internet to explore a theme. (CyA: Au2) I can use the internet to research information. (CyA: Au2) I can be discerning in evaluating digital content. (CyA: Au2) I can assess the credibility of a source on the internet. (CyA: Au2) I know what copyright is. (CyB: Sp1) I know how to cite information. (CyB: Sp1) I can edit the font on a word document. (CyB: Sp1) I can open and edit a word document. (CyB: Sp1) I can use keyboard shortcuts. (CyB: Sp1) I can create a PowerPoint. (CyB: Sp1) I can edit the font and design on a PowerPoint. (CyB: Sp1) I can layer images on top of each other on an image editing program. (CyB: Sp1) I can use the crop function. (CyB: Sp1) I can use the smart select function. (CyB: Sp1) I know which applications to use to create photos and videos. (CyB: Su1) I can select, use and combine a variety of software on a range of digital devices. (CyB: Su1) I can create a trailer using pictures. (CyB: Su1) I can combine video and photos. (CyB: Su1) I can use digital camera software. (CyB: Su1) I can combine a variety of computing skills to create a news report. (CyB: Su1) 			<ul style="list-style-type: none"> I can research an event. (CyA: Au1) I can create a flyer using Microsoft Publisher. (CyA: Au1) I know why I should evaluate sources of information. (CyA: Su1) I can use still images to produce an animation. (CyA: Su1) I can combine individual frames to perceive movement. (CyA: Su1) I can create a custom made animation. (CyA: Su1) I can evaluate web pages. (CyA: Su1) I can create a webpage layout. (CyA: Su1) I can add text to a webpage. (CyA: Su1) I can add images to a webpage. (CyA: Su1) I can add hyperlinks to a webpage. (CyA: Su1) I can create a short video. (CyB: Sp1) I can add backgrounds and digital effects to my videos. (CyB: Sp1) I can design a school app to help pupils to quickly find important information. (CyB: Sp1) I can screenshot the school webpage. (CyB: Sp1) I know that anything in an image can be digitally added, removed or altered. (CyB: Su1) I can create a video and upload it to OneDrive. (CyB: Su1) I can use Windows Photos to add digital effects. (CyB: Su1) 		
	record fast	slow	musical sequence	search technologies ebook storyboard	word processor presentation layers	edit	digital content digital artefacts www.	copyright cite fonts	shortcuts applications digital devices	animation evaluate hyperlinks	frames greenscreen	podcast digital effects