Computing Overview

Year 1	Computational thinking	Multimedia Book	Online Safety	Espresso	ICT skills Computer Skills	Espresso Coding
	I can give instructions to my friend and physically follow their instructions; describe what happens when I press buttons on a robot; describe what actions I will need to do to make something happen and talk about this as an algorithm; begin to predict what will happen for a short sequence of instructions.	Creator I can use technology to collect information, including photos, video and sound; be creative with different technology tools; use technology to create and present my ideas; use the keyboard or a word bank on my device to enter text.	I can keep my password private; tell you what personal information is; tell an adult when I see something unexpected or worrying online; talk about why it's important to be kind and polite; recognise an age appropriate website; agree and follow sensible Online Safety rules.	Coding I can use the word debug when I correct mistakes when I program; understand that when a computer does something it is following instructions called code; practise giving instructions to make objects on the screen move when the program starts; learn and practise how to make objects move when they are clicked Unplugged lesson.	I can use a computer mouse; switch on and shutdown a computer; name the main components of a computer; save a file; drag objects; click on an object to select it; drag selected objects with control.	I can learn to add your own images and make them move when the program starts up or clicked; learn and practise how to combine start events and click events to make a simple game; earn to draw things in the background Unplugged lesson.
Year 2	Espresso	ICT skills	Online Safety	Espresso Coding	Multimedia Puppet	Technology in our lives
	Coding I can learn how to make an object do simple things when keys are pressed on the keyboard; learn how to code an object to move	Word I can demonstrate a range of basic skills to use a computer and its software; type and format text, then save my work; open saved work and edit	I can explain why I need to keep my password and personal information private; describe the things that happen online that I must tell an adult about; talk about why I	I can learn how to program buttons to move another object around, so you can create a simple game; learn how to give instructions to make objects on the screen	Pals I can use technology to organise and present my ideas in different ways: I can use a range of images and tools to create different	I can search the Internet using one word; search the Internet to find results suitable for children; search for information safely online; follow links to

	around the screen and change direction when keys are pressed or using 'swipes'. Unplugged lesson	text; use shapes to create a particular image; use different brush tools to create a particular image; create text and pictures about a shared theme.	should go online for a short amount of time; talk about why it is important to be kind and polite online and in real life; I know that not everyone is who they say they are on the Internet.	move when the program starts; learn to make my own app or game, programming objects logically with clear instructions and debugging code when there is a problem Unplugged lesson.	effects; I can use technology to create a simple animation,	another web page; create content for an online blog; use a camera to take safe photographs to use online; post positive comments and responses on a blog. I can begin to understand what a branching database is I can use a branching database to sort objects
Year 3	ICT skills Word processing	Espresso Coding	Online Safety	Multimedia	Espresso Coding	Technology in our lives
	I can change the case of text; use bullets and numbering; use the key; insert and format text boxes.	I can learn how to program a sequence of actions, making different pieces of code execute at different times; practise using time to program a sequence of actions and make simple animation; learn how to program a sequence of objects to appear and disappear at specific times to simulate a physical system;	I can talk about what makes a secure password and why they are important; protect my personal information when I do different things online; use the safety features of websites as well as reporting concerns to an adult; recognise websites and games appropriate for my age; make good choices about how long I spend online; I ask an adult before downloading	Animation I can create different effects with different technology tools; I can create a simple stop motion animation with blutac; I can create a computer generated animation with a voiceover.	I can learn how to use conditional 'if' statements to program a maze game; learn to use the tip function to move the ball when the tablet/iPad tips; use 'if hit' statements to check if objects have collided; learn to design and make my own app; practise using conditional events	I can identify how word order affects search results; explain how searches return results; save webpages and share them safely; explain why I need to be responsible online.

		learn to design, write and debug your own app; practise using time in code to create an animation; add different	files and games from the Internet; post positive comments online		in code and debugging code when there is a problem Unplugged lesson.	
Year 4	Espresso Coding HTML	Espresso Coding	Online Safety	Multimedia Music	Espresso Coding	ICT skills Branching Databases
	I can get started with HTML by adding paragraphs of text to a page; add images to a web page using HTML; create a web page using headings, paragraphs and images; apply knowledge of HTML to create a web page using headings, paragraphs and images; understand how web developers structure their web pages using HTML standards.	I can learn and practise how to use variables to keep track of the score in a game; practise using conditional events in your code (also on an iPad) Unplugged lesson	I choose a secure password and screen name when I am using a website; I can talk about the ways I can protect myself and my friends from harm online; I use the safety features of websites as well as reporting concerns to an adult; I know that anything I share online can be seen by others; I choose websites, apps and games that are appropriate for my age; I can help my friends make good choices about the time they spend online; I can talk about why I need to ask a trusted adult before downloading files and games from the	I can use sound to create an atmosphere when presenting to different audiences; I can begin to use samples and loops in Garageband; I can write a ringtone in Garageband; I can write a song in Garageband; I can record my voice in Garageband	I can learn and practise how to use a loop to do something repeatedly (and repeat infinitely) in a program and create a timer/animation. Unplugged lesson.	I can search a ready-made database to answer questions. I can add to a database; organise data in different ways; collect data and identify where it could be inaccurate; plan, create and search a database to answer questions; choose the best way to present data to my friends; use a data logger to record and share my readings with my friends

			Internet; I comment positively and respectfully online and through text messages			
Year 5	ICT skills Spreadsheets	Espresso Coding	Online Safety	Technology in our lives	Multimedia Film	Espresso Coding
	I can enter data and formulas into a spreadsheet; order and present data based on calculations; add, edit and calculate data; use a spreadsheet to solve problems; design a spreadsheet for a specific purpose.	I can learn how to set values in code to program the speed of an object; how to change an object's direction; how to set friction to effect the speed and movement of a car in a driving game. Unplugged lesson.	I can choose a secure password and screen name; I protect my password and other personal information; explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to an adult; I know that anything I post online can be seen, used and may affect others; I can talk about the dangers of spending too long online or playing a game; I can explain the importance of communicating kindly and respectfully; I can discuss the importance of choosing an age-appropriate website, app or game; I can explain why I need to protect my computer	I can describe the ways in which websites advertise their products to me; know that websites can use my data to make money and target their advertising; recognise and evaluate different types of information I find on the World Wide Web; use a search engine to find appropriate information and check its reliability; tell you about copyright and acknowledge the sources of information that I find online; name the different parts of a computer and how it works	I can use appropriate software and other tools effectively to write a film script; I can use digital recording devices to film and import into video editing software; I can use video editing software to create a short film; I can use video editing software to turn a film project into a finished movie and present it.	I can learn to design and make my own app; how to make and use random numbers in your apps; learn how to code a game that uses random numbers to move objects in random directions speeds; learn how to code using random directions Unplugged lesson.

			or device from harm.			
Year 6	Espresso Coding	ICT skills	Online Safety	Espresso Coding	Espresso Coding Python	Multimedia Presentation
	I can learn how to program my own app, choosing your own objects and events; make a game that moves objects around by getting information from events and setting object parameters. Unplugged lesson.	Book Creator I can plan a branching story; create slide templates and organise slides with hyperlinks; add themes, transitions and animation to a presentation; use hyperlinks; insert audio and video; evaluate slide layout and make improvements.	I protect my password and other personal information; I can explain the consequences of sharing too much about myself online; I support my friends to protect themselves and make good choices online, including reporting concerns to an adult; I can explain the consequences of spending too much time online or on a game; I can explain the consequences to myself and others of not communicating kindly and respectfully; I protect my computer or device from harm on the Internet.	I can learn how to use variables and formulae in code; how to code functions which use formulae to convert one measurement into another; how to use variables in more complex ways to make a unit conversion app, Unplugged lesson.	I can input information in Python and generate an output by running the code; use Python to make simple calculations and recognise symbols for multiplication (*) and division (/); understand how inputs and variables work; use variables to store values; use the 'if' command and the 'input' with variables to make a quiz which keeps score.	I can make an animation about my time at school; I can make a short film about my memories of school; I can write a song about my memories of school