Computing – End Points

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	*Introduction to Purple Mash* • I can log in and out of Purple Mash • I can create and edit an avatar • I can open, save and hand in a 2Do *Creative Computing* • I can select colours and painting effects on 2Paint • I can use digital tools to play and make simple games • I can share work to a Display Board	*Data Explorers* • I can sort items into groups • I can complete grouping questions in 2Quiz • I can complete sentencing questions in 2Quiz • I can use data grouping and sorting to answer questions • I can create a pictogram using 2Count • I can collect and record data and answer questions about the pictogram.	*Creating and Following Instructions* • I can give clear instructions • I can follow simple instructions in a painting project • I can debug an algorithm *Technology Around Us* • I can recognise examples of technology • I can name types of digital technology • I can use devices safely	*Animated Stories* • I can recognise digital books are different to traditional books • I can use the painting tools in 2Create a Story • I can organise and copy pages in 2Create a Story • I can record sound for 2Create a Story • I can add backgrounds to a 2Create a Story book • I can change the font and font size	*Coding* • I can create simple algorithms • I can recognise the different coloured code blocks in 2Code • I can use Code View to see my coding • I can test 'When Clicked' events • I can debug codes when they need fixing • I can create a background in 2Code • I can code a program	*Making Beats* • I can understand the difference between musical instruments and digital music • I can compose a melody using 2Explore • I can compose a beat using 2Beat • I can use digital tools to change aspects of music • I can select the best tools for music composition
Year 2	*Route Explorers* • I can input commands in 2Go to move a turtle • I can plan a route	*Creating pictures* • I can explore a range of painting effects in 2Paint • I can use the brush tool	*Spreadsheets* • I can enter data into a cell • I can use formatting tools	*Questioning* • I can collect simple data • I can use tally charts	*Coding* • I can follow a written algorithm • I can identify and use a collision block	*Presenting Ideas* • I can organise ideas on a concept map in 2Connect • I can place nodes and type ideas

	• I can input several commands into an algorithm • I can reset, debug and re-run codes to test routes ***The Internet*** • I can understand what the internet is • I can identify WiFi, web browser and smart devices • I can find a given homepage • I can use a search engine	• I can use the dilute tool • I can produce digital images in traditional art styles • I can edit an enhance my digital art	• I can resize rows and columns • I can insert images and give them numerical values • To apply calculation tools • To use the tools in 2Calulate • To create a block diagram in 2Calculate	• I can create pictograms and bar charts using 2Count • To form Yes/No questions to sort objects • To use 2Questions to explore a branching database	• I can identify and use a timer command • I can altar attributes of an object • I can identify and use event command blocks • I can test and debug in a systematic way	• I can group ideas and change the colour of the node • I can draw connecting lines • I can use a concept map to plan a logical order for a presentation
Year 3	***Route Planners*** • I can input commands to make a turtle move towards a goal • I can rotate a turtle by 45° or 90° • I can plan an algorithm and input the commands for it • I can use the repeat algorithm layout for 2Go • I can reset, debug and re-run the code	***Branching Databases*** • I can explain what a database is • I can explain the difference between a binary question and an open question • I can use a binary database in 2Question • I can add and sort records in a 2Question database • I can test and fix bugs in a branching database	***Spreadsheets*** • I can create a spreadsheet • I can enter, edit and delete data in cells • I can use Advanced Mode features of 2Calculate • I can use the copy and total tools • I can open and use Formula Wizard • I can apply built-in functions • I can use spreadsheet tools	***Coding*** • I can identify features of a flowchart • I can use a flowchart to help design a program • I can use a timer to make an event happen repeatedly • I can read the code of example programs with nesting • I can use knowledge of nesting to debug a program	***Presentations*** • I can locate and open presentation software • I can use text box, word art and images • I can change the design of slides • I can apply animation to a slide • I can add slide notes • I can create an effective and informative presentation	***Touch Typing*** • I can use basic touch-typing skills • I can sit correctly for touch typing • I can use my right hand and my left hand for typing letters • I can complete activities using 2Type • I can use my little finger to press the shift key ***Optional extra unit Micro:bit*** • I can understand what a micro:bit is

			to solve real world problems			• I can use a micro:bit to produce outputs and receive inputs • I can transfer a code to a micro:bit
Year 4	*Unpacking Hardware and Software* • I can identify whether an item is an example of technology • I can identify electrical, digital and smart technology • I can understand what hardware and software are *Logo* • I can input directional commands • I can use space commands • I can explore visual effects • I can create regular shapes using the repeat command • I can write and save Logo procedures • I can debug Logo code	*Animation* • I can make a simple flick animation book • I can use 2Animate to make simple animations • I can choose appropriate sounds and speeds for animations • I can use storyboarding to plan animation	*Sound Stories* • I can explain the difference between an audio book and a physical book • I can identify features that make audiobooks more effective • I can use music and sound effects on 2Cast • I can contribute to the recording and editing of an audiobook • I can use editing tools in 2Cast • I can reflect and improve on my work	*Coding* • I can choose and change object attributes • I can interpret flowcharts • I can identify and change co-ordinates • Identify, create and nest 'if/else' control blocks • I can make decisions about whether and when to use repeat timers • I can create number variables and initialise their values • I can change the variables	*Composing Beats* • I can recognise the features of music • I can create my own simple rhythm on Busy Beats • I can create my own simple melodies on Busy Beats • I can create and record my own piece of music on Busy Beats • I can build a piece of electronic music	*Introduction to AI* • I can explain what AI is and what it can do • I can write an effective prompt • I can identify how to be a good user of AI • I can understand how AI may help in the future *Additional Unit Micro:bit* • I can write a code that uses light sensors and/or accelerometer inputs • I can create, use and combine variables in a program • I can explain that inputs, outputs and computer code can work together to make simple systems

						• I can create a simple piece of code that makes up a control system • I can explain that logic is used to make different outputs happen on a micro:bit
Year 5	*Quizzing* • I can select the most suitable quiz for a topic • I can design quizzes to meet a brief using 2Quiz • I can explore and select best settings for a quiz	*Game Creator* • I can evaluate the playability of a game • I can make a 3D game using 2DIY 3D game creator • I can design a 3D game • I can choose and design appropriate textures for the game • I can choose appropriate sound effects for the game • I can design sprites and quest items for a game • I can create useful instructions • I can evaluate a 3D game	*Spreadsheets* • I can enter data accurately into cells • I can create and edit formulas and apply them to cells • I can create line graphs in 2Calculate • I can sort data into categories • I can use spreadsheets to plan an event, evaluate weather or cost a holiday • I can format spreadsheets appropriately	*Coding* • I can use tabs to organise code • I can plan, use, test and evaluate an algorithm for a physical system using 2Chart • I can use abstraction when planning a program • I can use decomposition to organise code • I can create functions in 2Code • I can initialise all variables appropriately • I can recognise where concatenation can be useful in programs	*Word Processing* • I can open, save and rename a Word Document • I can switch between landscape and portrait • I can use the text formatting toolbar to edit text • I can insert a table	*Concept Maps* • I can create a concept map using 2Connect • I can move, connect and organise nodes • I can refine and improve a concept map • I can present ideas clearly • I can review and improve my work *Databases* • I can use the 2Investigate database tool to work with data • I can search for information and answer questions • I can design a database

						• I can use the query builder tool • I can produce an automated report
Year 6	*Networks* • I can identify local and global networks • I can explain the difference between LAN and WAN • I can understand that networks can be wired or wireless • I can identify the difference between internet and world wide web • I can give examples of web browser tools • I know how filtering and censorship help keep us safe online *Graphing* • I can create a variety of graphs • I can export and publish graphs	*Blogging* • I can create a blog post using an appropriate hook • I can plan, draft, revise and edit before publishing a blog post • I can read and respond to comments on a blog post • I can identify posts and comments that are unsafe *Data Detectives* • I can identify tables, records and fields • I can use the filter, grouping, calculate and sort tools • I can select the most appropriate graph type • I can link tables together • I can use the 'and/or' operator	*Coding* • I can write a code to clone objects • I can create hotspots in 2Code • I can make conscious choices about datatype when creating variables • I can use input commands • I can create flowcharts to represent algorithms • I can create and write code for function • I can review and change the code in a text-based adventure game	*Introduction to Python* • I can use language syntax for simple programs • I can use the sleep function • I can use the 'for loop' and 'while loop' functions • I can use Python to perform mathematical calculations • I can program sprites to move positions	*Spreadsheets* • I can enter formulae into a spreadsheet • I can manipulate the presentation of spreadsheet data • I can add data to a spreadsheet and use functions for calculating • I can create a range of graphs and charts • I can sort and filter data on a spreadsheet • I can plan an event using a spreadsheet	*3D modelling* • I can define what a 3D model is • I can explain how CAD (Computer Assisted Design) is used • I can use 2Design and Make to develop a 3D model • I can view a model from three viewpoints • I can move, add and remove points on a model • I can plan a design for a design brief *Optional Unit* *Binary* • I can explain the 0 and 1 integers in binary • I can create decimal values by adding bits together • I can count in binary

	• I can use 2Graph and 2Calculate to create pie charts • I can create a line graph and use graphing tools					• I can make a simple program that uses variable values of 0 and 1 to control the flow of the program