Year 1/2	
Computing	To identify technology, computer and its main parts
systems and	To use a mouse and a keyboard in different ways
networks	To recognise the uses and features of information technology
	To identify the uses of information technology in and beyond school
	To explain how information technology helps us
	To explain how to use information technology safely
Creating	To describe what different freehand tools do
media	To use the shape tool and the line tools
	To make careful choices when painting a digital picture
	To use a computer on my own to paint a picture
	To add and remove text on a computer
	To identify that the look of text can be changed on a computer
	To use a digital device to take a photograph
	To decide how photographs can be improved
	To use tools to change an image
	To show how music is made from a series of notes
	To create music for a purpose
Data and	To label objects
Information	To identify that objects can be counted
	To describe objects in different ways
	To count objects with the same properties
	To compare groups of objects
	To answer questions about groups of objects
	To recognise that objects can be represented as pictures
	To create a pictogram
	To select objects by attribute and make comparisons
Programming	To explain what a given command will do
5 5	To act out a given word
	To combine forwards and backwards commands to make a sequence
	To combine four direction commands to make sequences
	To plan a simple program
	To find more than one solution to a problem
	To choose a command for a given purpose
	To show that a series of commands can be joined together
	To identify the effect of changing a value
	To explain that each sprite has its own instructions
	To design the parts of a project
	To use my algorithm to create a program
	To describe a series of instructions as a sequence
	To explain what happens when we change the order of instructions
	To use logical reasoning to predict the outcome of a program (series of commands)
	To design an algorithm
	To create and debug a program that I have written
	To explain that a sequence of commands has a start and an outcome
	To create or change program using a given design or my own design

Year 3/4	
Computing	To explain how digital devices function
systems and	To identify input and output devices
networks	To explain how a computer network can be used to share information
	To explore how digital devices can be connected
	To recognise the physical components of a network
	To describe how networks physically connect to other networks
	To recognise how networked devices make up the internet
	To outline how websites can be shared via the World Wide Web (WWW)
	To describe how content can be added and accessed on the World Wide Web (WWW)
	To recognise how the content of the WWW is created by people
	To evaluate the consequences of unreliable content
Creating	To explain that animation is a sequence of drawings or photographs
media	To plan an animation
	To recognise how text and images convey information
	To choose appropriate page settings
	To add content to a desktop publishing publication
	To consider how different layouts can suit different purposes
	To identify that sound can be digitally recorded
	To use a digital device to record sound
	To explain that audio can be changed through editing
	To explain that digital images can be changed
	To change the composition of an image
	To recognise that not all images are real
	To evaluate how changes can improve an image
	To show that different types of audio can be combined and played together
Data and	To create questions with yes/no answers
Information	To identify the object attributes needed to collect relevant data
mornation	To create a branching database
	To identify objects using a branching database
	To compare the information shown in a pictogram with a branching database
	To use a digital device to collect data automatically
	To explain that a data logger collects 'data points' from sensors over time
	To use data collected over a long duration to find information
	To use collected data to answer questions
Programming	To explore a new programming environment
	To identify that commands have an outcome
	To recognise that a sequence of commands can have an order
	To create a project from a task description
	To explain how a sprite moves in an existing project
	To create a program to move a sprite in four directions
	To adapt a program to a new context
	To identify and fix bugs in a program
	To design and create a maze-based challenge
	To create a program in a text-based language
	To explain what 'repeat' means
	To modify a count-controlled loop to produce a given outcome
	To decompose a task into small steps
	To explain that in programming there are infinite loops and count controlled loops
	To develop a design that includes two or more loops which run at the same time
	To design and create a project that includes repetition

Year 5/6	
Computing	To explain that computers can be connected together to form systems
systems and	To recognise the role of computer systems in our lives
networks	To contribute to a shared project online
	To identify how to use a search engine
	To describe how search engines select results
Creating media	To identify digital devices that can record video
	To capture video using a range of techniques
	To identify that video can be improved through reshooting and editing
	To identify that drawing tools can be used to produce different outcomes
	To create a vector drawing by combining shapes
	To use tools to achieve a desired effect
	To group objects to make them easier to work with
	To review an existing website and consider its structure
	To plan the features of a web page
	To consider the ownership and use of images (copyright)
	To outline the need for a navigation path
	To use a computer to create and manipulate three-dimensional (3D) digital objects
	To compare working digitally with 2D and 3D graphics
	To construct a digital 3D model of a physical object
	To design a digital model by combining 3D objects
Data and	To use a form to record information
Information	To outline how grouping and then sorting data allows us to answer questions
	To explain that tools can be used to select specific data
	To apply my knowledge of a database to ask and answer real-world questions
	To identify questions which can be answered using data
	To apply formulas to data, including duplicating
	To create a spreadsheet to plan an event
	To choose suitable ways to present data
Programming	To explain how selection is used in computer programs
	To relate that a conditional statement connects a condition to an outcome
	To explain how selection directs the flow of a program
	To design a program which uses selection
	To create a program which uses selection
	To evaluate my program
	To define a 'variable' as something that is changeable
	To explain why a variable is used in a program
	To choose how to improve a game by using variables
	To design a project that builds on a given example
	To use my design to create a project
	To evaluate my project
	To create a program to run on a controllable device
	To explain that selection can control the flow of a program
	To update a variable with a user input
	To use an conditional statement to compare a variable to a value
	To design a project that uses inputs and outputs on a controllable device
	To develop a program to use inputs and outputs on a controllable device