

Computing Systems and networks						
Infants		Lower Juniors		Upper Juniors		
Technology Around Us	Information Technology around us	Connecting Computers	<u>The Internet</u>	Sharing Information	<u>Communication</u>	
 To identify technology To identify a computer and its main parts To use a mouse in different ways To use a keyboard to type To use the keyboard to edit text To create rules for using technology responsibly 	 To recognise the uses and features of information technology (IT) To identify IT in the home To identify IT beyond school To explain how IT benefits us To know how to use IT safely To recognise that choices are made when using IT 	 To explain how digital devices function To identify input and output devices To recognise how digital devices can change the way we work 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 To describe how content can be added and accessed on the World Wide Web To recognise how the content of the WWW is created by people To evaluate the consequences of unreliable content 	 To explain that computers can be connected together to form systems To recognise the role of computer systems in our lives To recognise how information is transferred over the internet To explain how sharing information online lets people in different places work together To contribute to a shared project online To evaluate different ways of working together online 	 To identify how to use a search engine To describe how search engines select results To explain how search results are ranked To recognise why the order of results is important, and to whom To recognise how we communicate using technology To evaluate different methods of online communication 	

Data and Information						
Infants		Lower Juniors		Upper Juniors		
Grouping Data	<u>Pictogram</u>	Branching Databases	Data Logging	Flat-file databases	<u>Spreadsheets</u>	
 To label objects 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 we can count and compare objects using tally charts To recognise that objects can be represented as pictures To create pictograms To select objects by attribute and make comparisons To recognise that people can be described by attributes To explain that we can present information using a computer 	 To create questions with yes/no answers To create a branching database To explain why it is helpful for a database to be well structured To identify objects using a branching database To identify the object attributes needed to collect relevant data To compare the information shown in a pictogram with a branching database 	 To explain that data gathered over time can be used to answer questions 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 identify the data needed to answer questions To use collected data to answer questions 	 To use a form to record information To compare paper and computer-based databases To apply my knowledge of a database to ask and answer real-world questions To explain that tools can be used to select data to answer questions To apply my knowledge of a database to ask and answer real-world questions To apply my knowledge of a database to ask and answer real-world questions To apply my knowledge of a database to ask and answer real-world questions To apply my knowledge of a database to ask and answer real-world questions 	 To identify questions which can be answere using data To explain that objects can be described using data To explain that formul can be used to produc calculated data To apply formulas to data, including duplication To create a spreadshee to plan an event To choose suitable wa to present data 	



Creating Media A						
Infants		Lower Juniors		Upper Juniors		
Digital Painting	Digital Writing	<u>Animation</u>	Desktop Publishing	Vector Drawing	<u>Video Editing</u>	
 To describe what different freehand tools do (not a computing related progression step) To use the shape tool and the line tools To make careful choices when painting a digital picture To explain why I chose the tools I used To use a computer on my own to paint a picture To compare painting a picture on a computer and on paper 	 To use a computer to write To add and remove text on a computer To identify that the look of text can be changed on a computer To make careful choices when changing text To explain why I used the tools that I chose To compare writing on a computer with writing on paper 	 To explain that animation is a sequence of drawings or photographs To relate animated movement with a sequence of images To plan an animation To identify the need to work consistently and carefully To review and improve an animation To evaluate the impact of adding other media to an animation 	 To recognise how text and images convey information To recognise that text and layout can be edited To choose appropriate page settings To add content to a desktop publishing publication To consider how different layouts can suit different purposes To consider the benefits of desktop publishing 	 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 recognise that vector drawings consist of layers To group objects to make them easier to work with To evaluate my vector drawing 	 To recognise video as moving pictures, which can include audio To identify digital devices that can record video To capture video using a digital device To recognise the features of an effective video To recognise the features of an effective video To consider the impact of the choices made when making and sharing a video 	

	Creating Media B						
Infa	Infants		Lower Juniors		Upper Juniors		
<u>Digital Photography</u>	Making Music	Audio Editing	<u>Photo Editing</u>	3D Modelling	Web Page Creation		
 To know what devices can be used to take photographs To use a digital device to take a photograph To describe what makes a good photograph To decide how photographs can be improved use tools to change an image To recognise that images can be changed 	 To say how music can make us feel (not a computing related progression step) To identify that there are patterns in music To describe how music can be used in different ways To show how music is made from a series of notes To create music for a purpose To review and refine our computer work 	 To identify that sound can be digitally recorded To use a digital device to record sound To explain that a digital recording is stored as a file To explain that audio can be changed through editing To show that different types of audio can be combined and played together To evaluate editing choices made 	 To explain that digital images can be changed To change the composition of an image To describe how images can be changed for different uses To make good choices when selecting different tools To recognise that not all images are real To evaluate how changes can improve an image 	 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 identify that physical objects can be broken down into a collection of 3D shapes To design a digital model by combining 3D objects 	 To review an existing website and consider it structure To consider the ownership and use of images (copyright) To plan features of a web page To recognise the need to preview pages To outline the need for a navigation path To recognise the implications of linking to content owned by other people 		