hi-impact

IT Key Knowledge Progression

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Word Processing & Functional Skills	Know that text and images should communicate information clearly. Know that images and text can be inserted into a digital device. Know that changing the font, size and colour of text can make it easier to read. Know how to use a digital device to take a photograph.	Know that text should stand out. Know that digital books can be easily edited. Know how to make text and images stand out. Know how to add and alter text using a digital book creator. Know how to add and edit text and images. Know how to add and edit layouts .	Know that it is important to edit fonts to suit the audience and purpose of a document. Know how to enter text into a word processing document and change the font. Know how to navigate to a given website. Know how to copy and paste text and images.	Know that it is necessary to change the formatting of text to suit the document. Know that text boxes can be used to alter the layout of a document. Know how to enter text and images into a word processing document. Know that tables can be used to organise	Know that hyperlinks can be used as shortcuts to move between slides. Know that effective formatting can improve a presentation. Know how to create a new presentation with text and images. Know how to use formatting options. Know how to add	Know that the internet relies on sending complex messages between computers. Know that packets of information are sent between routers using the shortest route. Know that the internet can be used for collaborative working. Know how to access shared

				information. Know how to use numbered and bullet pointed lists.	hyperlinks to a presentation.	files stored online.
Creating media	Know that adding audio to an image can make it more interesting. Know that voices can be recorded and played back using a digital device. Know how to animate a picture. Know how to play back an animation.	Know that different devices can be used to take photographs. Know that photos can be taken in both landscape and portrait format. Know that digital images can be changed. Know that different photos will look better in portrait or	Know that good designs need careful choices for fonts, colours and layouts. Know that there are differences between print and video presentations. Know how to use graphic design features to create a poster. Know how to use a range of video,	Know that onion skinning can be used to help create a stop motion animation. Know that editing can affect the effectiveness of an animation. Know that storyboards can be used to plan animations. Know how to film a stop motion	Know that filming techniques are used to create effects. Know that a range of visual effects give different outcomes. Know how to record a video. Know how to create a series of scenes and videos.	Know that websites have different purposes. Know that interactive features can improve a website. Know how to identify features of website layouts. Know how to layout a website to make it visually

	Know how to record the movements made on a screen and play them back.	landscape format. Know how to use a tool to achieve a desired effect.	presentation and audio tools.	animation. Know how to edit and improve an animation. Know how to add effects to a project	Know how to make use of a range of visual effects and filming techniques. Know how to create and add text, video, sound and other effects to a video presentation.	appealing. Know how to add text, images and layout features to a website.
Data and Information	Know that objects can be sorted into different groups. Know that pictograms can be used to answer questions about data. Know that data in digital pictograms can be changed	Know that data can be presented in different ways. Know how to record data in a tally chart. Know how to collect and organise data. Know how to use	Know that it is helpful to group items evenly using common features. Know how to create closed questions. Know how to create and use an online branching	Know that tables can be used to organise data. Know that data loggers use sensors to collect data. Know how to identify data attributes and values.	Know that information can be recorded as data. Know that a database can contain records cards, fields and attributes. Know that a database can be	Know that spreadsheets can be used to perform calculations. Know that spreadsheets can be used to create charts. Know how to organise and

	easily. Know how to label objects. Know how to explain how objects have been grouped. Know how to create a digital pictogram.	a computer to create a bar chart.	database.	Know how to use a stopwatch to collect data. Know how to use a range of data loggers to gather data. Know how to work with various forms of input. Know how to use a computer to view data in different ways. Know how to interpret data that has been collected using a data logger.	sorted using filters. Know how to use common operands to filter data. Know how to query a database using keywords and filters, for example using 'greater than', 'equal to' and 'contains'. Know how to organise data by designing fields and entering records in a database, checking for accuracy.	present data in a spreadsheet. Know how to write a formula to answer a question.
Computers and	Know that	Know that digital	Know how school	Know that photo	Know what a	Know that it is

Networks	technology can help us. Know and can name examples of technology. Know that a keyboard is used for typing letters and numbers. Know how to type my name using a tablet keyboard. Know how to tap a screen on an iPad to make something happen.	technology is used in school to make tasks easier. Know that different people in school use technology for different purposes. Know that digital technology is used widely in our world to make tasks easier and safer. Know that barcodes and QR codes can communicate information very quickly. Know how to use	networks work. Know that URLs and domain suffixes can tell users about a web page or site. Know and can name some input and output devices. Know what the internet is. Know how to use a search engine to access a website. Know how to begin to refine searches.	editing can be used to alter images. Know that some things can and cannot be shared on the World Wide Web. Know how to access the World Wide Web. Know that images and content on the internet have owners. Know that owners need to be credited and give permission for their photos to be used.	Boolean search is and why they are useful. Know how to identify the purpose, content and design of a website. Know how to identify factors which can affect a website's ranking. Know how to use advanced search operators.	important to check a website for credibility and reasonableness. Know that users can compare websites and identify hoaxes. Know that media can be copyrighted and not used without permission. Know how to evaluate a website. Know how to identify false or misleading information. Know how to

				Know how to identify features of photo editing. Know how to use editing techniques to improve the composition of photos. Know how to use editing techniques to create a series of images. Know how to explain the techniques chosen and why they have been used.		search for appropriate images to use.
		a QR code.				
Modelling, Music and Media	Know that sounds can be recorded.	Know that paint tools can be used to draw a digital	Know that storyboards can be used to plan	Know that vector graphics can be used to create	Know that loops can be edited and layered to create	Know that objects can be manipulated by

	Know that sounds can be arranged to create tracks. Know how to make a rhythmic pattern using a music app. Know how to record and save sounds. Know how to use recorded sounds in a music editing app.	picture. Know that it is possible to change digital colours and brush sizes. Know how to make marks on a screen. Know how to explain which tools have been used. Know how to use the shape and line tools. Know how to use the fill tool. Know how to create a picture in	films. Know how to record a film clip. Know how to edit a video using appropriate software. Know how to choose an appropriate soundtrack to convey emotion in a film.	designs. Know that layering can be used to create depth in a design. Know that grouping can be used to support designs. Know how to draw and fill basic shapes on screen. Know how to draw and layer objects to form an image. Know how to copy and paste a design.	different effects. Know how to record a voice and edit it. Know how to layer sounds and music to enhance a voice recording. Know how to download a podcast as an MP3 or AAC (Advanced Audio Coding) file.	resizing, moving and rotating them. Know that there are some benefits to using 3D computer designs. Know how to create objects on screen as part of a 3D model. Know how to use grouping as part of a 3D model. Know how to create a 3D design with a purpose.

		the style of an artist.				
Digital Literacy (based on Common Sense Media lessons)	Know when and why to take breaks from device time. Know that it is important to consider the feelings of people around me, even when using fun online activities. Know that it's important to be aware and respectful of people while using devices. Know that the internet can be used to visit faraway places	Know that it is important to be safe, responsible and respectful online. Know what to do when they don't have a good feeling when using technology. Know how to identify websites and apps that are "just right" and "not right" for us. Know how to get help from an adult if they are unsure about a website.	Know that being a good digital citizen means being safe and responsible online. Know how to recognise the ways in which digital devices can be distracting. Know how to recognise the kind of information that is private. Know that they should never give out private information online.	Know how to identify examples of online responsibilities to others. Know that a strong password is important. Know how to create a memorable and strong password. Know how posting selfies or other images will lead others to make assumptions about them. Know how to	Know how to evaluate how healthy different types of media choices are. Know some of the reasons why people share information about themselves online. Know that there is a difference between private and personal information. Know that it is risky to share private information online.	Know what "media balance" means and how it applies to them. Know how clickbait uses the curiosity gap to get your attention. Know how to use strategies for avoiding clickbait. Know how to define "gender stereotypes" and describe how they can be present online. Know how gender stereotypes can

	and learn new things. Know how staying safe online is similar to staying safe in the real world. Know how to explain rules for travelling safely on the internet.		Know that information shared online leaves a digital footprint or "trail". Know what information is OK to be shared online. Know how people can connect on the internet. Know what online meanness can look like and how it can make people feel. Know how to respond to mean words online.	identify ways they can post online to best reflect who they are. Know what a community is, both in person and online. Know that it's important to think about the words we use, because everyone interprets things differently. Know how to decide what kinds of statements are OK to say online and which are not. Know that photos	Know what a digital footprint is and how to contribute to it. Know how to describe the positives and negatives of social interaction in online games. Know what cyberbullying is. Know what "copyright" is and explain how it applies to creative work. Know how to apply copyright principles to real-life	lead to unfairness or bias. Know that there are benefits and risks of online-only friendships. Know how to respond to an online-only friend if the friend asks something that makes them feel uncomfortable. Know that there are similarities and differences between in-person bullying, cyberbullying and being mean.

			Know how giving credit is a sign of respect for people's work. Know how to give credit for content used from the internet.	and videos can be altered digitally. Know how to identify different reasons why someone might alter a photo or video.	scenarios.	Know how to identify strategies for dealing with cyberbullying and ways they can be an upstander for those being bullied. Know the purposes of different parts of an online news page. Know about things to watch out for when reading online news pages, such as sponsored content and advertisements.