


KNOWLEDGE PROGRESSION

|  | KNOWLEDGE PROGRESSION | | | | | |
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| | KEY STAGE 1 | | LOWER KEY STAGE 2 | | UPPER KEY STAGE 2 | |
| | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 | YEAR 6 |
| Information Technology | <p>I know how to create an animation.</p> <p>I know how to create a video adding effects and voiceovers.</p> <p>I know how to use QR codes and how to explore AR.</p> | <p>I know how to collect data and how to use a branching database.</p> <p>I know how to create a storyboard using images and voice notes.</p> <p>I know how to create a digital image and layer images.</p> <p>I know how to create a sequence of sounds and record my voice to produce a song.</p> | <p>I know how to input data into a spreadsheet and export types of charts.</p> <p>I know how to create an online questionnaire.</p> <p>I know how to create a 3D animation.</p> <p>I know how to create and edit videos using music, sound effects, subtitles, voiceovers and greenscreen.</p> <p>I know how to create my own 360° images and videos.</p> | <p>I know how to create an interactive comic with sounds, formatted text and video.</p> <p>I know how to create a digital image using a range of tools, pens, brushes and effects.</p> <p>I know how to create and edit purposeful musical compositions.</p> | <p>I know which type of animation I can make to best explain my learning.</p> <p>I know how to create a realistic representation of world objects using a 3D drawing app.</p> <p>I know how to enhance digital photos and images using crop, brightness, contrast and resize tools.</p> <p>I know how to add voiceover and edit sound clips (volume, pitch, fade, effect) to use in a film, radio broadcast or podcast.</p> <p>I know how to create a remix of a popular song.</p> | <p>I know how to edit and format difference cells in a spreadsheet and use simple formulae to solve calculations.</p> <p>I know how to create and export an interactive presentation including a variety of media, animations, transitions and other effects.</p> <p>I know how to create a webpage and embed videos.</p> <p>I know how to create videos using a range of media – green screen, animations, film and image.</p> <p>I know how to create an interactive VR experience.</p> <p>I know how AR & VR work.</p> |
| Computer Science | <p>I know what algorithms are.</p> <p>I know how to locate and fix bugs in my program.</p> | <p>I know how to write algorithms for everyday tasks.</p> <p>I know how to create programs on a variety of digital devices.</p> | <p>I know how to create algorithms for use when programming.</p> <p>I know how to write programs that accomplish specific goals.</p> <p>I know why computers are networked.</p> | <p>I know how to write increasingly more precise algorithms for use when programming.</p> <p>I know how to use logical reasoning to systematically detect and correct errors in programs.</p> <p>I know how the internet allows us to collaborate.</p> | <p>I know how to use logical reasoning to explain how a variety of algorithms work.</p> <p>I know how to create programs by decomposing them into smaller parts.</p> <p>I know how we view web pages on the internet.</p> | <p>I know how to write precise algorithms for use when programming.</p> <p>I know how to create procedures to hide complexity in programs.</p> <p>I know how to create a webpage using HTML.</p> |
| Digital Literacy | <p>I know that people might not be who they say they are online.</p> <p>I know how to be kind to others online.</p> <p>I know some rules that help me keep safe online.</p> <p>I know what information I shouldn't share online.</p> | <p>I know how I can use the internet to communicate with others positively.</p> <p>I know that online information lasts for a long time.</p> <p>I know how to use the internet to find information I need.</p> <p>I know that I am the owner of my own online work.</p> | <p>I know the difference between an online and real-life identity.</p> <p>I know what online bullying is and what to do if I see it happening.</p> <p>I know strategies to keep my information private.</p> | <p>I know that I should be careful not to trust anyone I meet online.</p> <p>I know how information about people can be found online.</p> <p>I know that not all of the information I read online is true.</p> <p>I know that spending too much time using technology is not healthy for me.</p> | <p>I know how to make positive contributions to online communities.</p> <p>I know that I am developing an online reputation and how to ensure it is a positive one.</p> <p>I know how to create strong and secure passwords to keep my information safe.</p> <p>I know when it is and isn't appropriate to use others' work that I have found online.</p> | <p>I know how my online identity can be copied, modified or altered.</p> <p>I know how the media can shape ideas about gender.</p> <p>I know a range of strategies to help myself or others who are being bullied online, including blocking, reporting and accessing help services.</p> <p>I know how search engines work and how results are ranked.</p> <p>I know a range of strategies I can use to limit technologies impact on my health.</p> |