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|  | Topic 1 Autumn | Topic 2 Autumn | Topic 3 - Spring | Topic 4 - Spring |
| Year 3 / 4  22 - 23 | Online safety  Searching for information and making a judgement about the probable accuracy; recognising adverts and pop-ups; understanding that technology can be distracting. | Creating media: website design  Learning how web pages and sites are created and how to embed media and links. | Data handling: Investigating Weather  Researching and storing data on spreadsheets and designing a weather station. | Programming – Computational thinking  Solving problems effectively using the four areas of abstraction, algorithm design, decomposition and pattern recognition. |
| Year 3 / 4  23 - 24 | Online safety  Learning: the difference between fact, opinion and belief; and how to deal with upsetting online content. Knowing how to protect personal information online | Programming: Scratch  Exploring the programme Scratch, following the predict > test > review cycle. Learning about ‘loops’ and programming an animation, story and game. | Data handling: Comparison Cards  Learning about records, ﬁelds and data and sorting and ﬁltering data. | Networks and the internet – Google  Learning what a network and how devices communicate and share information |
| Year 5 | Online safety Learning about app permissions; the positive and negative aspects of online communication; that online information is not always factual; how to deal with online bullying and managing our health and wellbeing. | Programming: Scratch  Building-on programming and music skills to create different sounds, beats and melodies which are put to the test with a Battle of the Bands performance! | Data handling: Mars Rover  Learning about the Mars Rover, exploring how and why it transfers data including instructions, and how messages can be sent using binary code. | Search engines – Google  Learning about how page rank works and how to identify inaccurate information |
| Year 6 | Online safety  Learning to deal with issues online; about the impact and consequences of sharing information online; how to develop a positive online reputation; combating and dealing with online bullying and protective passwords. | Skills showcase: Inventing a product  Designing a product, pupils: evaluate, adapt and debug code to make it suitable for their needs and designing products in CAD and creating a website and video. | Data handling: Big Data 1  Identifying how barcodes and QR codes work. Learning how infrared waves are used for the transmission of data while recognising the uses of RFID. | History of computers – Google  Writing, recording and editing radio plays set during WWII, learning about how computers have evolved. |



