

E-safety road map, Year 3

UNIT	E-SAFETY COVERAGE
Unit 3.1 We are programmers	<p>The pupils need to consider copyright when sourcing images for their programs and/or uploading their own work to the Scratch community site. Searching for content for programs or viewing others' cartoons also offers an opportunity to develop safe search habits. If the pupils participate in the Scratch community, they need to think about what information they can share and how to participate positively in an online community, as well as obtaining parental permission.</p>
Unit 3.2 We are bug fixers	<p>The pupils could consider the implications of bugs in software. Participating in the Scratch community would enable the pupils to help others with their projects as well as allowing them to receive help on their own. Participation requires parental permission, and the pupils should consider what behaviour is acceptable online.</p>
Unit 3.3 We are presenters	<p>In filming one another, the pupils need to ensure that the appropriate permission has been obtained, and that they act respectfully and responsibly when filming, editing and presenting their work. The pupils should think through the implications of videos being made available on the school network or more widely via the internet. They should discuss why schools and other organisations have strict policies over filming.</p>
Unit 3.4 We are network engineers	<p>The pupils learn about how networks, including the internet, operate. They learn that data transmitted via the internet is not always encrypted. They consider some of the implications for privacy, e.g. their 'digital footprint' associated with using the internet. They become aware of the importance of DNS for safe use of the internet. They learn to use command line diagnostic tools safely and responsibly.</p>
Unit 3.5 We are communicators	<p>The pupils should think about the safe use of email. They learn how email can be used positively. They become aware of some of its risks, including malware attachments, hacked accounts, spam and spoofed links, but also learn how their exposure to such risks can be reduced. They consider the importance of introductions in extending circles of trust. They learn how video conferencing can be used positively, to support learning with a known partner.</p>
Unit 3.6 We are opinion pollsters	<p>The pupils learn some of the legal and ethical requirements for designing online surveys and processing data. They also consider what information it would be appropriate for them to give in an online survey, and some implications of data processing. The pupils can use online tools for collaborating on survey design and analysis, considering how to use these appropriately. The survey itself could address issues of the pupils' attitudes to online safety.</p>

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To see how e-safety is covered in other year groups, see the CD-ROM.

E-safety road map, Year 4

UNIT	E-SAFETY COVERAGE
Unit 4.1 We are software developers	<p>The pupils need to consider copyright when sourcing images or media for their programs and/or uploading their own work to the Scratch community site. Searching for content for their programs or viewing others' games also offers an opportunity to develop safe search habits. If the pupils participate in the Scratch community, they need to think about what information they can share and how to participate positively in an online community, as well as obtaining parental permission.</p>
Unit 4.2 We are toy designers	<p>The pupils again need to think carefully about copyright in sourcing images and other media for their toy prototypes and presentations, or if uploading their own work to the Scratch community. If the pupils do participate in the online Scratch community, they should think through how to do so in a safe and responsible manner, and should obtain their parents' consent. If the pupils link their programs to hardware, they need to take care to work safely with a range of tools and electronic equipment.</p>
Unit 4.3 We are musicians	<p>The pupils need to think about copyright when sourcing audio or publishing their own compositions. They are encouraged to use Creative Commons licensed content if working with others' audio files. There's an opportunity to discuss how copyright relates to music performed in school as well as illegal downloading and sharing of copyrighted music.</p>
Unit 4.4 We are HTML editors	<p>The pupils learn how easy it is to create content for the web. The unit provides an opportunity to address some of the risks of using the web, and how pupils could best keep themselves safe while doing so. They learn how easily web pages can be modified, which provides an opportunity to consider the reliability of web-based content.</p>
Unit 4.5 We are co-authors	<p>The pupils learn about Wikipedia, considering some strategies for evaluating the reliability of online content as well as the rules and processes that the Wikipedia community has evolved. The pupils develop a shared wiki, thinking carefully about how to do so safely and responsibly, and considering what conduct is appropriate when collaborating on a shared resource.</p>
Unit 4.6 We are meteorologists	<p>The pupils consider the importance of obtaining and using accurate data for any information-processing work. If the pupils film one another, they need to ensure appropriate permission is obtained and that recordings are made, edited and shown in safe, respectful and responsible ways. The pupils should think carefully about the implications of uploading their films to the school network or to the internet.</p>

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E-safety road map, Year 5

UNIT	E-SAFETY COVERAGE
Unit 5.1 We are game developers	<p>The pupils need to consider copyright when sourcing images or media for their games and/or uploading their own work to the Scratch community site. Searching for content for their games or viewing others' games also offers an opportunity to develop safe search habits. If the pupils participate in the Scratch community, they need to think about what information they can share and how to participate positively in an online community, as well as obtaining parental permission. The pupils might also consider some personal implications of playing games, perhaps including violent computer games.</p>
Unit 5.2 We are cryptographers	<p>The pupils learn how information can be communicated in secret over open channels, including the internet, using cryptography. They learn about the public key system used to sign and encrypt content on the web, and how they can check the security certificates of encrypted websites. They learn about the importance of password security for online identity and consider what makes a secure password.</p>
Unit 5.3 We are artists	<p>The unit provides an opportunity to reinforce messages around safe searching and evaluating the quality of online content. If the pupils upload their work for others to see, they should consider the importance of protecting personal information as well as recognising that they are sharing their own copyrighted work with an audience.</p>
Unit 5.4 We are web developers	<p>E-safety forms the focus of this unit, with the pupils working collaboratively to develop a website in which they present their own authoritative content on a broad range of issues around the safe and responsible use of technology. In doing so, they consider the reliability and bias of online content, how to contribute positively to a shared resource, and how to use search engines safely and effectively.</p>
Unit 5.5 We are bloggers	<p>The pupils write content for their own or a shared blog, thinking carefully about what can be appropriately shared online. They consider issues of copyright and digital footprint as well as what constitutes acceptable behaviour when commenting on others' blog posts. The pupils also think about the importance of creating high-quality online content and become more discerning in evaluating content as they review others' blogs. If the pupils' blogs are publicly accessible, it is important that any comments are moderated by their teacher; it is worth discussing with the pupils why the comments should be moderated.</p>
Unit 5.6 We are architects	<p>The pupils should observe good practice when searching for and selecting digital content. If the pupils choose to locate their 3D models geographically, they should avoid sharing private information. The pupils should think about copyright when adding content to their model or publishing images or videos of their model.</p>

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E-safety road map, Year 6

UNIT	E-SAFETY COVERAGE
Unit 6.1 We are app planners	The pupils consider the capabilities of smartphones and tablet computers, and how these can be used purposefully. They become aware of some of the capabilities of these devices, including how they can be used to record and share location information; they consider some of the implications of this. They use search engines safely and effectively. The pupils could make use of their own tablets or smartphones in school, considering how they can do this safely and to good effect.
Unit 6.2 We are project managers	The pupils use online tools safely and effectively, considering how they can contribute positively to a shared project. Again, they use search engines safely and effectively. They may also make use of online content, respecting any copyright conditions.
Unit 6.3 We are market researchers	The pupils show regard for the ethical and legal frameworks around conducting interviews and online surveys, such as the need to preserve anonymity and/or confidentiality. In conducting their research, the pupils need to act safely and responsibly, as well as showing respect for those participating in the research.
Unit 6.4 We are interface designers	The pupils need to think carefully about copyright in relation to both sourcing and creating their own digital content and user interface components for their apps.
Unit 6.5 We are app developers	Pupils using their own or the school's tablets or smartphones for this unit need to consider how to do so safely and purposefully. Children participating in online communities for either of the development platforms here need to do so in a safe, responsible and respectful manner. The pupils should also think carefully about any safety implications of the apps they develop.
Unit 6.6 We are marketers	In marketing their app, the pupils should consider the legal and ethical frameworks around advertising across different media. They should also think about the need to protect personal information about themselves and other members of their group when marketing their app. In creating websites for their apps, the pupils need to consider the e-safety implications for the site's users as well as themselves.

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