



Overview	<p>By the end of this unit, students will be able to confidently identify:</p> <ul style="list-style-type: none">• Dangers of using technology• How to safely use technology and computers• The role of email and how to use emails• Dangers of using social media and how to mitigate these• The key components of algorithmic thinking (abstraction, decomposition & pattern recognition)• The key components of a flowchart• The uses of flowcharts to solve different programmatic problems.
Assessment	<p>By the end of the unit students will understand:</p> <ol style="list-style-type: none">1. What the dangers of being online are including cyberbullying, online strangers and identity theft.2. How to keep data secure and create strong passwords.3. How to stay safe online and what to do in case you are uncomfortable online (Block, Report, CEOP).4. Abstraction, decomposition and pattern recognition.5. The shapes and methods used to draw a flowchart.6. How to create flowcharts based on a series of algorithms

Key words	Email, social media, data, computer, network, cyberbullying, block, report, private data, public data, abstraction, decomposition, algorithm, flowchart, decision
Key dates	n/a

Topics	Key content	Glossary link	Knowledge Organiser link
E-safety and E-mail	The core dangers associated with using technology and how to safely use computers and electronic devices. How to safely use email and basic email functionality. Understand netiquette and how to structure emails to professionals and peers.		https://www.bbc.co.uk/bitesize/guides/z7t6jvh/revision/2 https://www.bbc.co.uk/bitesize/guides/z7t6jvh/revision/3 https://www.bbc.co.uk/bitesize/guides/z8nk87h/revision/5
Social media	The dangers of social media The effects of using social media How to stay safe when online and key methods to avoid damages online		https://www.bbc.co.uk/bitesize/guides/zrtrd2p/revision/1 https://www.bbc.co.uk/bitesize/guides/zrtrd2p/revision/2
Algorithms	Algorithmic thinking as a combination of Decomposition, Abstraction & pattern recognition. Writing algorithms for scenarios using Algorithmic thinking.		https://www.bbc.co.uk/bitesize/guides/zpp49j6/revision/1
Flowcharts	The basic shapes associated with creating flowcharts Converting algorithms into flowcharts and vice versa How to create flowcharts for different scenarios and problems.		https://www.bbc.co.uk/bitesize/guides/zpp49j6/revision/3