

Year 5 Computing: Mastering Cybersecurity with Kit the Fox

Learning objective: To understand the importance of online safety, identify potential security risks, and apply strategies to protect personal data.

Read each question carefully. Use your knowledge of digital footprints, secure passwords, and online communication to answer. Ensure your explanations are clear and detailed.

Kit the Fox is building a digital map for the BookFlik forest explorers. To keep the map safe from intruders, Kit must ensure that all accounts are protected and that the explorers know how to spot suspicious messages. Kit is concerned that some explorers might be sharing their passwords or clicking on links from unknown sources.

Word bank: Password · Phishing · Encryption · Digital footprint · Authentication · Secure · Cybersecurity · Malware · Personal data

1. Kit needs to create a strong password for the map server. Explain two features that make a password 'strong' and secure. (2 marks)

2. Define the term 'digital footprint'. Why is it important to consider what you post online? (2 marks)

3. An explorer receives an email that looks like it is from the Forest Library, asking for their home address and private login details. What is this type of attack called, and what advice would you give the explorer? (3 marks)

4. What might happen if an explorer uses the same simple password for their email, their school portal, and their gaming account? Justify your answer. (4 marks)

5. Compare and contrast the risks of sharing photos of yourself online versus sharing photos of a landscape. Why is one considered more sensitive? (4 marks)

6. Explain why 'Two-Factor Authentication' is considered a more effective security measure than a password alone. (5 marks)

7. Kit wants to teach younger animals about cybersecurity. Write a 5-point 'Safety Charter' for the forest, explaining how to stay secure online. (5 marks)

Draw: Draw a diagram showing a 'Digital Shield'. Inside the shield, draw icons representing the tools or habits that keep a computer user safe from online threats.



*Extension challenge: Imagine you are designing a new app for forest animals. Write a short proposal explaining what security features you would implement to ensure users' personal data is kept private.
Total: /25*