

Kit's Cyber-Security Challenge: The Digital Vault

Learning objective: To understand the importance of secure passwords, recognize phishing attempts, and identify methods to protect personal information online.

Kit the Fox has designed a digital vault to keep his research data safe. However, he has noticed some suspicious activity! Read each scenario below and determine if the action taken is 'Secure' or 'Insecure'. For 'Insecure' actions, explain why they put data at risk and suggest a way to make them secure.

Word bank: Password · Phishing · Encryption · Two-factor authentication · Cybersecurity · Data · Privacy · Suspicious

1. Scenario 1: Kit creates a password for his vault using his favorite food: 'carrot123'. Is this secure? Justify your answer. (2 marks)

2. Scenario 2: Kit receives an email from a stranger asking him to click a link to 'win a lifetime supply of books' by entering his login details. How should Kit respond and why? (2 marks)

3. Scenario 3: Compare and contrast a 'weak' password with a 'strong' password. Why is complexity important in cybersecurity? (2 marks)

4. Scenario 4: Explain why using two-factor authentication adds an extra layer of protection to an online account. (2 marks)

5. Scenario 5: What might happen if an organisation does not keep their customer data encrypted? (2 marks)

6. Scenario 6: Justify the decision to never share your home address or school name on public social media platforms. (2 marks)

Draw: Draw a 'Safety Shield' for the internet. Inside the shield, draw or write three symbols or rules that represent how you keep your digital identity safe (e.g., a padlock for passwords, a 'stop' sign for suspicious links).



Extension challenge: Design a 'Password Policy' poster for your classroom. Create a catchy acronym (like Kit's 'F.O.X.' method) that helps other pupils remember the rules for creating a strong, unique, and memorable password without writing it down.