

Year 5 Computing Assessment: Staying Safe Online

Learning objective: To understand the principles of cybersecurity, including the importance of strong passwords, identifying phishing attempts, and protecting personal information.

Read each question carefully. Answer in full sentences where required. Ensure you use the vocabulary from the word bank to help explain your answers.

Kit the fox is a digital expert. Kit knows that the internet is a fantastic place to learn and play, but it is important to build a 'digital fortress' to keep information safe. Kit often reminds friends that a password should be like a secret key that only you hold. When you share your name, address, or school details online, you are sharing pieces of your digital identity. Cyber criminals often use tricks, such as fake emails or messages, to try and steal this information.

Word bank: Password · Phishing · Secure · Personal data · Encryption · Cybersecurity · Authentication · Identity theft

1. Explain why it is important to use a 'strong' password. Give one example of what makes a password difficult to guess. (2 marks)

2. Kit receives an email from an unknown person claiming they have won a prize, but they need Kit's home address to send it. What is this type of scam called and what should Kit do? (3 marks)

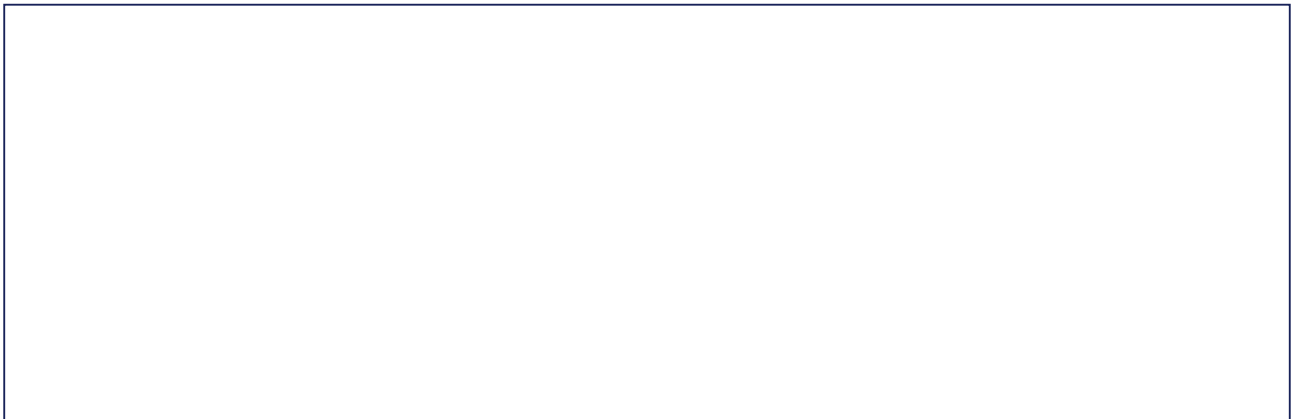
3. Define the term 'personal data'. List two examples of information that you should never share with someone you do not know online. (3 marks)

4. Why is 'two-factor authentication' (2FA) considered a more secure way to log into an account than just using a password alone? (4 marks)

5. Look at the following scenario: A friend asks you for your gaming account login so they can help you level up your character. Explain why this is a risk and suggest what you should say to your friend. (4 marks)

6. Extended Writing Task: Imagine you are writing a guide for younger students about how to be a 'Cyber-Hero'. Describe three important rules they must follow to stay safe online and explain why each rule is vital for their security. (9 marks)

Draw: Draw a 'Digital Shield' that protects a computer. Inside the shield, draw or write three symbols or words that represent good cybersecurity habits (e.g., a padlock for a password, a 'thumbs down' for a stranger, or a 'shield' for encryption).



Extension challenge: Total: /25. Challenge: Research what 'encryption' means in simple terms. Can you explain how it helps keep your messages private when you send them to a friend? (Worth 3 bonus marks).