

Kit's Cyber-Security Challenge

Learning objective: To understand the importance of secure passwords, recognise potential online threats, and identify how to stay safe in a digital environment.

Help Kit the fox protect his digital forest! Read the questions carefully and select the best answer to keep his data safe from prying eyes. Remember, a clever computer user is always one step ahead of a security risk.

Answer Key: 1.C, 2.True, 3.B, 4.False, 5.Phishing, 6.A, 7.True, 8.B, 9.False, 10.Encryption. Cybersecurity is the practice of protecting systems, networks, and programmes from digital attacks. Using strong, unique passwords and being cautious of suspicious emails are essential habits for every Year 5 pupil.

Word bank: Phishing · Encryption · Password · Malware · Identity · Privacy · Secure · Cybersecurity

1. Kit needs a strong password. Which of the following is the most secure choice? A) 123456, B) myname123, C) F0x!Cl3v3r2024, D) password123. (* indicates correct answer) (1 mark)

2. True or False: You should always share your private passwords with your best friends just in case you forget them. (1 mark)

3. What do we call a message that tries to trick you into clicking a dangerous link? A) A digital greeting, B) Phishing, C) A system update, D) A bookmark. (* indicates correct answer) (1 mark)

4. True or False: If an email asks for your home address and bank details, it is perfectly safe to reply as long as the email looks colourful. (1 mark)

5. What is the term for malicious software designed to damage or gain unauthorised access to a computer system? (1 word answer) (1 mark)

6. Why is it important to have different passwords for different accounts? A) To prevent a 'domino effect' where one hack compromises everything, B) Because the computer gets confused, C) To help you remember more numbers, D) It makes the internet load faster. (* indicates correct answer) (1 mark)

7. True or False: You should always log out of your account when using a shared computer, such as in a library or at school. (1 mark)

8. If you see something online that makes you feel uncomfortable or worried, what should you do? A) Delete the history and ignore it, B) Tell a trusted adult immediately, C) Reply to the message to ask them to stop, D) Post about it on social media. (* indicates correct answer) (1 mark)

9. True or False: It is safe to download free games from any website, even if it looks unofficial. (1 mark)

10. What is the process of scrambling data into a code that only authorised people can read? (1 word answer) (1 mark)

Draw: Draw a 'Digital Shield' that protects Kit the fox's computer. Include symbols on the shield that represent safety, such as a padlock, a key, or a stop sign.



Extension challenge: Greater Depth Challenge: 1. Explain why using personal information like your pet's name or your birthday in a password is a security risk. 2. Compare and contrast the risks of using public Wi-Fi versus a private, password-protected network. 3. Justify why two-factor authentication (2FA) is considered a 'gold standard' for account security. 4. What might happen if a company fails to use encryption for their customer data? 5. Design a 'Cyber-Safety Poster' for your classroom that warns peers about the dangers of clicking on unknown links. 6. Research and explain the role of a 'firewall' in simple terms suitable for a younger pupil.