

Cybersecurity Guardians: Year 4 Computing

Learning objective: To understand the importance of cybersecurity, identifying threats like phishing and the importance of strong, secure passwords.

Read each card to learn about staying safe online. Use these to test your knowledge with a partner or for independent study.

What is Cybersecurity?

The practice of protecting computers, networks, and personal data from digital attacks or unauthorised access.

What makes a password 'strong'?

A combination of at least 8-12 characters, including upper and lower case letters, numbers, and symbols, that is not easy to guess.

Define 'Phishing'.

A type of online scam where someone sends a fake email or message pretending to be a real company to trick you into revealing private information.

Why should you never share your home address or school name online?

Because this is personal data that could be used by strangers to identify your location or compromise your safety.

What is 'Two-Factor Authentication'?

A security process that requires two different forms of identification (like a password and a code sent to your phone) to access an account.

Explain why you should 'log out' of shared devices.

To prevent other users from accessing your personal accounts or private information after you have finished using the computer.

What is 'Encryption'?

A way of scrambling information into a secret code so that only someone with the right 'key' can read it.

If you receive an unexpected email asking you to click a link to 'win a prize', what should you do?

Do not click the link. Tell a trusted adult immediately, as it is likely a phishing scam.

Why is it important to use a different password for every account?

If a hacker discovers one password, they cannot access all of your other accounts.

Who should you talk to if you see something online that makes you feel uncomfortable?

Always report it to a trusted adult, such as a teacher, parent, or guardian.

What does a 'secure' website URL often begin with?

'https://' (the 's' stands for secure) and often displays a small padlock icon in the browser bar.

Kit the fox says: 'Keep your digital footprint small.' What does this mean?

It means being careful about what you post, share, or like, because information left on the internet can remain there for a long time.