



Cyber Security Training For School Staff



Cyber Security





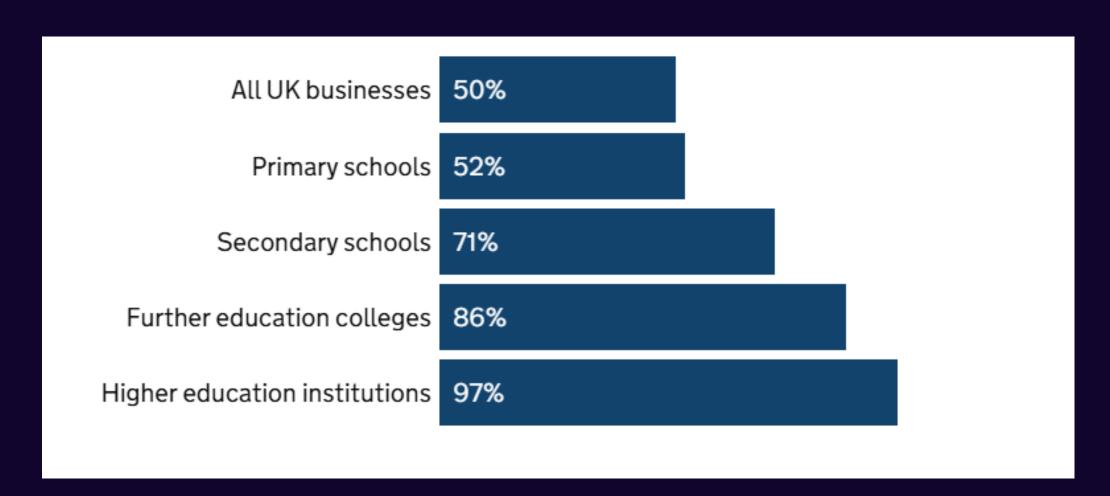
The government have said that all schools need to meet the cyber security standard.

All staff should have annual cyber security training.

Agenda

- School cyber resilience in numbers
- Who is behind school cyber attacks?
- Cyber threats from outside the school
- Cyber threats from inside the school
- 4 key ways to keep yourself safe

Percentage of organisations that have identified breaches or attacks in the last 12 months.



Types of attack

Type of Attack	Primary	Secondary
Phishing	84%	86%
Others impersonating the organisation	23%	42%
Viruses, spyware, or malware	10%	16%
Unauthorised access of files or networks by students	6%	15%
Unauthorised access of files or networks by staff	2%	15%
Hacking or attempted hacking of online bank accounts	5%	4%
Ransomware	5%	3%
Denial of service attack	3%	8%

Phishing is generally the first stage in many cyber attacks

89% of schools have experienced a phishing attacks

Who is behind cyber attacks?

- Criminals that might wish to target your school for financial gain.
- Criminals that have identified a potential weakness in the school's technology or processes.
- Staff or pupils that could be responsible for attacks either intentionally or accidentally.



Why would they target my school?

- Schools hold lots of sensitive data that can be very valuable.
- Lots of financial transactions signed off by one person.
- May be seen as a soft target.
- Don't have dedicated security and fraud teams.
- IT may be older and therefore more vulnerable.







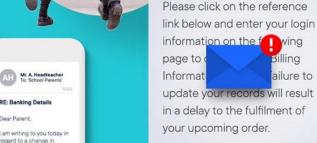




Case Study - Fraud and ransomware

'Payment fraud' and ransomware attacks in schools

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very carefully and followin the simple instructions in order to take the required action. By doing this, you w

help ensure that your account will remain up to



ailure to

Case Study - Ransomware

Phone call from someone pretending to be from the DfE





Dear Sir,

I am writing to you following an initial conversation with your so st, with regard update rtment for Education. The following email outlines several steps that you need to take in







Phone call from DfE

Asked for email details of head of finance

Sent targeted email Files encrypted

Spread through the network £8,000 for decryption

Case Study - Fraud

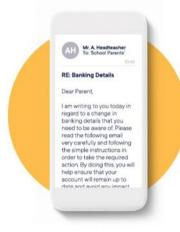
Independent school parents targeted by 'payment fraud' scam



Independent school targeted

Please click on the reference link below and enter your login information on the filling page to a Billing linformation and the sulfurnation of the filling line to update your records will result in a delay to the fulfilment of your upcoming order.

Phishing attack led to the compromise of email



Email sent to parents informing of banking detail change



Parent's school fees stolen and details sold on for identity fraud









School hacked by pupil broke Data Protection Act

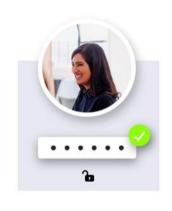
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Case Study - Password management

School hacked by pupil Broke Data Protection Act











Accessed school MIS

Used teacher's password

20,000 records involved

Duplicate passwords used

Disciplined by ICO



Case Study - Access control



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IT manager convicted after school's computer network hacked

Case Study - Access control

IT manager arrested after school's computer network hacked

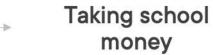








School IT manager



Access to CCTV systems

Wiped everything when caught



Case Study - Secure storage

School USB stick loss exposes pupil data



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Case Study - Secure storage

School USB stick loss exposes pupil data



Unencrypted USB stick with thousands of pupils details



Removed from school and lost



Handed back in and reported to ICO

4 key ways to defend yourself

- Defend against phishing attempts.
- Use strong passwords.
- Secure your devices.
- If in doubt call it out.

Defend against phishing attempts



Phishing

Untargeted, mass emails sent to many people asking for sensitive information (such as bank details) or encouraging them to visit a fake website.











Phishing example

Subject: URGENT - Email capacity - you will soon stop receiving emails



admin@m1cr0s0ftlogin.org











To: businessmanager@theacademy.sch.uk

Dear businessmanager,

Weds 05/02/2020 16:16

You have reached the size limit for your mailbox and you will shortly stop receiving emails until you have confirmed that you require more space.

Please click here to confirm your email login and password to increase your capacity a continue to receive emails.

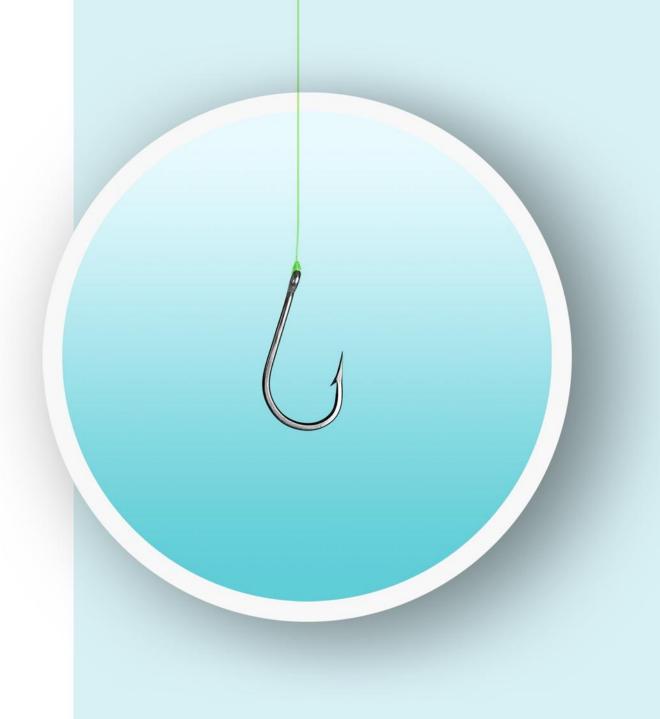
Kind regards,

www[.]M1cr0s0ftlogin[.]org

Microsoft

J. How do I defend myself against phishing attempts?

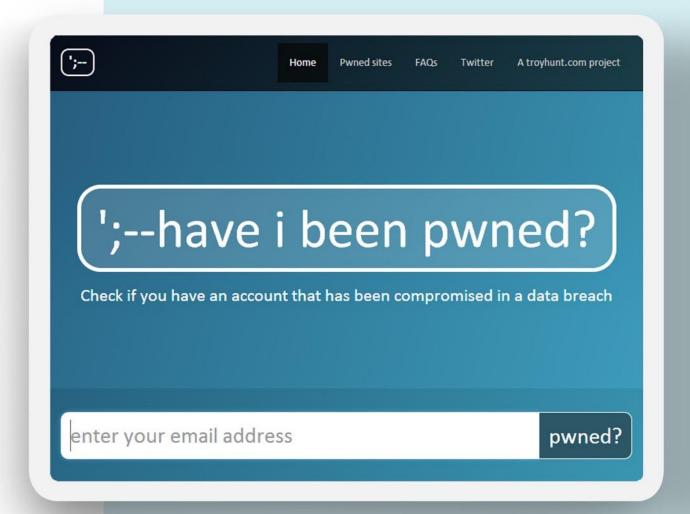
- Reduce the information available to attackers.
- 2. Know the influence techniques.
- 3. Know what 'normal' looks like.
- 4. Don't be embarrassed to ask for help.
- 5. Report if you click!





2. Using strong passwords

- Avoid commonly used passwords.
- Avoid passwords relating to personal information.
- Avoid passwords that have been breached previously.



www.havelbeenpwned.com

2. Using strong passwords

- Create a strong password for important accounts.
- 2. Use a separate password for your work account.
- 3. Where available, switch on twofactor authentication for important accounts.
- 4. Store passwords securely.





3. Secure your devices

- School owned devices.
- 2. Your own devices.
- 3. Removable storage.



3. Secure your devices

- Do not ignore updates.
- 2. Only download apps from trustworthy sources.
- 3. Physically protect your device.
- 4. If you need to use USB storage, ensure it is encrypted.





4. If in doubt call it out

- 1. Report any suspicious activity.
- 2. Report as soon as possible.
- 3. Don't be afraid to challenge.





Your checklist



Review

Review the privacy settings for your social media, professional networking sites and app accounts.



Know

Know who to report any unusual activity to. If you're not sure, ask your line manager or IT team.



Check

Check your device is set to receive updates automatically.



Set

Set a strong password and switch on two-factor authentication, if available, for your most important accounts.



Remove

Remove any apps that have not been downloaded from official stores.



Check

Check that the password for your work account is unique.



If it's not possible to follow security advice, process or policy - flag it to your IT team.





Safeguarding Training Register - Cyber Security Training - Wednesday 6th November 2024

By completing this online form it will act as a digital record that you have completed the training outlined and will be used as proof of your attendance.

Session from: National Cyber Security Centre & GCHQ

DOWNLOAD A CERTIFICATE FOR YOUR PERSONAL RECORDS USING THE FOLLOWING LINK: https://www.ncsc.gov.uk/cyber-security-schools-training-certificate

Hi, Stephen. When you submit this form, the owner will see your name and email address.

* Required

1. Please enter your surname: * 🛄

Enter your answer

2. Please enter your forename: *



Thank you

To download your cyber security training certificate please click on this link:

https://www.ncsc.gov.uk/cyber-security-schools-training-certificate

For other useful school cyber security resources please visit:

https://www.ncsc.gov.uk/cyber-security-schools