

Cyber Check for schools

Welcome

Arati Patel-Mistry
Cyber Security Engagement Lead

George Martin
Security and Data Protection Advisor- SWGfL



Today we will cover...

- DfE Cyber Security Standards
- Cyber threat in education
- 'Cyber check for schools' Cyber Secure start guide
- Links to further support



Digital and technology

standards

June 2024

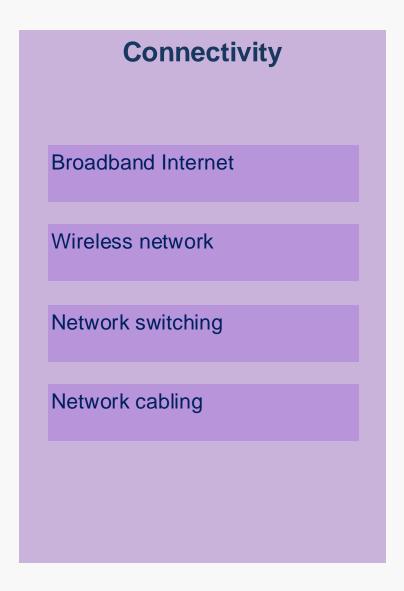




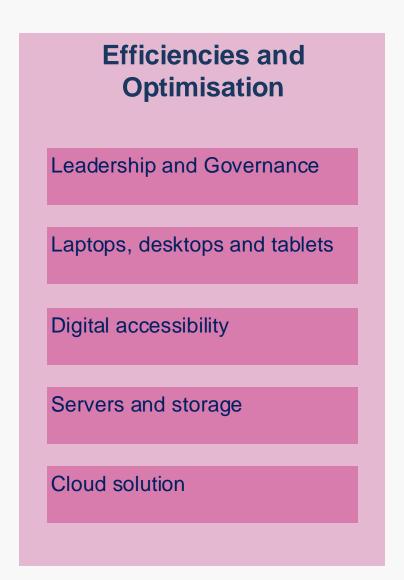
Why is it important to have safe and reliable tech?

- Increasing efficiency across school estate
- Improving accessibility and inclusion
- Improving cyber resilience and security
- Reducing the risk of online harms
- Supporting excellent teaching
- Contributing to improved workload efficiencies
- Contributing to improved student outcomes

Digital and technology standards







Who are the standards for?



Everyone involved in the planning and use of technology within schools and colleges, including:

- Senior leadership teams
- IT staff
- Suppliers
- Technical advisers
- Teachers
- Governors

What we've heard from schools so far...

"As a member of SLT with less technical experience I found them to be clear and incredibly useful they would help me to ask of others and answer questions around these aspects. These standards would drive improvement."

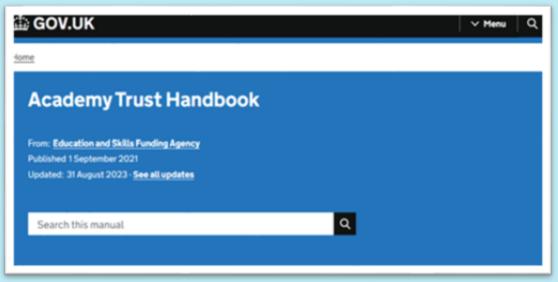
"These standards read well - they make you do something but without being scaremongering."

"It is a good starting point for educational establishments to refer to when looking at IT procurement, especially when dealing with salespeople."

Cyber Standards Refresh

The key changes are:

- More information for Senior Leaders
- The 12 standards have been condensed into 7
- Updated structure to fit the existing suite of standards





What are the changes and why are they important?

New standard	This standard addresses elements of the existing standard titled:
Standard 1 – Conduct a cyber risk	Your business continuity and disaster recovery plan should include a
assessment annually and review	regularly tested contingency plan in response to a cyber attack'
every term	
Standard 2 – Create and implement	Train all staff with access to school IT networks in the basics of cyber
a cyber awareness plan for students	security
and staff	
Standard 3 – Secure digital	Protect all devices on every network with a properly configured
technology and data with anti-	boundary or software firewall
malware and a firewall	Network devices should be known and recorded with their security features enabled, correctly configured and kept up-to-date
	You should use anti-malware software to protect all devices in the network, including cloud-based networks
	An administrator should check the security of all applications downloaded onto a network

What are the changes and why are they important?

New standard	This standard addresses elements of the existing standard titled:
Standard 4 – Control and secure	Accounts should only have the access they require to perform their role
user accounts and access privileges	and should be authenticated to access data and service
	You should protect accounts with access to personal or sensitive
	operational data and functions by multi-factor authentication
Standard 5 – License digital	All devices and software must be licensed for use and should be
technology and keep it up to date	patched with the latest security updates
Standard 6 – Develop and	You should have at least 3 backup copies of important data, on at least
implement a plan to backup your	2 separate devices, at least 1 must be offsite
data and review this every year	
Standard 7 - Report cyber attacks	Serious cyber-attacks should be reported



Cyber Threat in Schools

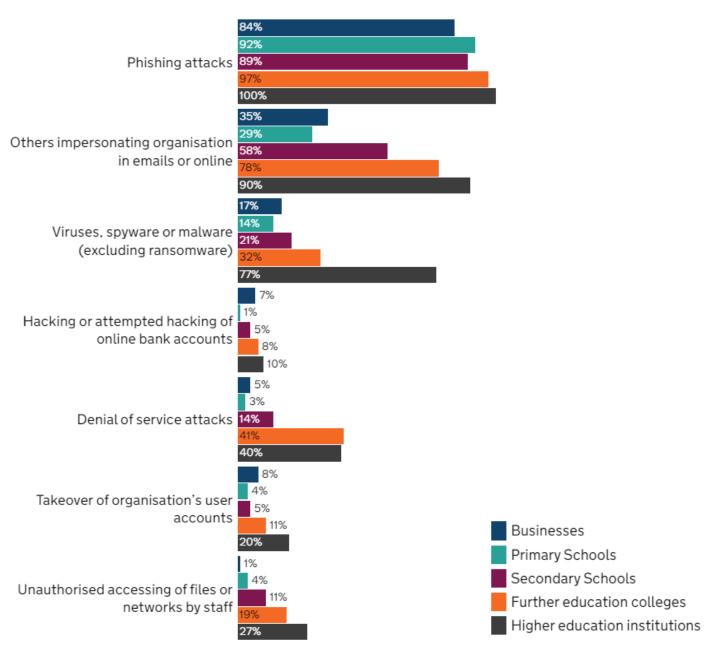




CYBER THREAT

52% of primary, 71% of secondary schools and 86% of further education colleges identified cyber breaches or attacks 2023 – 2024*

*DSIT Cyber Security Breaches Survey 2024



15 schools in Nottinghamshire crippled by cyber attack

The Nova Education Trust is unable to access its IT systems to conduct remote lessons



Schools across Nottinghamshire have had to shut down their IT networks after a central trust that manages their systems was hit by a cyber attack.

All 15 secondary schools that are part of the Nova Education Trust are currently unable to access emails

- . University systemattack

The trust has alerted the National Dyber Security Centre INCSCI which is currently working with its central IT team to resolve the matter. The incident has also been reported to the Department of Education (DfE) and the Information Commissioner's Office The attack was first discovered on Wednesday morning.

prompting the trust to shutdown every one of its systems as a

Sign up for email upo all the latest support

SEARCH-

FEATURES-

VIDEO & PODCASTS -

Primary, Hunnyhill Primary and Lanesend Primary.

↑ News Home

More from Sie of Wight News

Tuesday, August 24th, 2021 10:28am

By Oliver Dyer 🂆 Solidyer

Parents of students at Isle of Wight schools hit by ransomware attacks are being asked to get in

Staff at Medina and Carisbrooke College, as well as the Island VI Form, were affected, as were Barton

As Isle of Wight Radio first reported, cyber attacks left school websites inaccessible and data 'frozen' earlier

ISLE OF WIGHT SCHOOLS NEED DATA AFTER CYBER ATTACK

93% increase in cyberattacks targeting the UK's education sector

As back-to-school begins, Check Point Research (@_CPResearch_) found the education sector to have the highest volume of cyber attacks for the month of July. Cyber criminals are seeking to capitalize on the

short-notice shift back to remote learning driven by the Delta variant, by targeting people of schools, universities and research centers who log-in from home using their personal devices.

 Global education sector saw a 29% increase in cyber attacks, and an average of 1,739 attacks a week, in July, compared to first half

Top 5 most attacked countries were India, Italy, Israel, Australia

 UK/Ireland/Isle-of-Man region experienced a 142% increase in weekly cyber attacks targeting the education sector, East Asia region marked a 79% increase

Check Point Research (CPR) sees an increase in cyberattacks against the global education sector, as back-to-school season gets underway. During the month of July, the education sector experienced the highest volume of cyber attacks compared to other industry sectors that CPR tracks, with an average of 1,739 cyber attacks documented per organization each week, marking a 29% increase from the first half of





Man appears in court accused of cyberattack on a Harborough school's computer network

000

The case has been referred to Leicester Crown Court

() () ()



Fears as 'thousands' of cyber attacks launched against British schools and universities

He Point Office visuality about the coposition relations in abutions to exha-Artische, the Sundry Dynasis can reveni

NOTIFICAL PROPERTY OF CHARGE SOUTHERS SERVICE THE RESPECTATION OF STREET, SAME OF PARTY

(₽) (10) (10)





Stenue to receive our rundown of the

Culture & Education Opinion Events Video telssTalk White Papers

Harris Federation suffers a ransomware attack, shuts down email and telephone systems

March 31, 2021



Education charity Harris Federation has become the fourth multiacademy trust to have suffered a ransomware attack since late February. The ransomware attack has forced the charity to shut down IT systems, and temprarily disable its email system and switchboard services.

The Harris Federation, which now runs fifty primary and secondary academies in London and Essex with more than 36,000 pupils enrolled. announced on Monday that it suffered a ransomware attack last Saturday that enabled backers to access its IT systems and encrypt. their contents. The charity is presently working with cyber security experts to investigate the attack and restore all affected systems.

In a press release, Harris Federation said that after discovering the ransomware attack, it disabled its email system used by more than 40,000 students, as well as its telephone systems and switchboard

The growing importance of cybersecurity in schools

Sponsored: iSAMS explores the most effective ways schools can protect themselves against cyber scammers

FEATURES COMMENT WEBINARS PODCAST EVENT REPLAY DIRECTORY PROFILE LOGIN



In 2020, the UK's Department for Digital, Culture, Media and Sport conducted a Cyber Security Breaches Survey with a section focused specifically on the education sector. Its findings made for perturbing reading. The results of the survey showed that 41% of primary schools, 76% of secondary schools and 80% of further education institutions had identified at least one cyber-attack or security breach in the previous 12 months.

Hackers and cybercriminals appear to be increasingly turning away from larger organisations in favour of targeting smaller institutions - seen as low hanging fruit - that may be less well equipped to deal with a scarn or hacking attempt. The fallout from a security breach can have devastating consequences for schools.

Previous attacks have resulted in significant financial losses, sensitive data on students, parents and staff being lost or published online and have even forced temporary school closures. With schools firmly in the crosshairs of cybercriminals, the importance of a secure digital infrastructure has never been greater.

One of the most effective ways to protect against cyber scammers is training staff to spot phishing attacks and malicious downloads, and implementing safety checks such as 2FA (two-factor authentication) for all school systems

Hackers and cybercriminals appear to be increasingly turning away from larger organisations in favour of targeting smaller institutions

Cyberoriminals can embed malware in email attachments, which if downloaded can spread through a school's network



Alert: Further ransomware attacks on the UK education sector by cyber criminals

The NCSC is responding to further ransomware attacks on the education sector by cyber





IN THIS ALERT 1. Introduction

CONTEXT AND IMPACT - SO WHAT?

Ransom is the biggest threat facing the education sector

Over 143 incidents have been reported since August 2024

Schools are critically dependent on technology and online services

But it's a challenge to maintain IT infrastructure, processes & cyber awareness

... which means that schools become easier targets for cyber criminals

And so leaders want DfE support to help with their cyber and digital capabilities SERVICE

e.g. school can't open, reception can't take calls

- PUPILS
 - e.g. lost work, exams cancelled
- FINANCIAL
 - e.g. lose a significant sum of money, staff/suppliers can't be paid
- LEGAL

 e.g. safeguarding data leaked
- REPUTATION Immeasurable

WHAT IS CYBER SECURE?

Free and anonymous self-assessment tool

Helps schools understand and improve their cyber resilience

Based on recognised standards

Iterative and will develop in line with industry best practice





HOW DOES IT WORK?

https://CyberSecureCheckForSchools.uk

Grade your cybersecurity measures along 23 aspects

Anonymously compare performance with local/national averages

Report risk-based assessment to senior leadership to inform decision-making

Includes guidance, templates and links to best practice resources

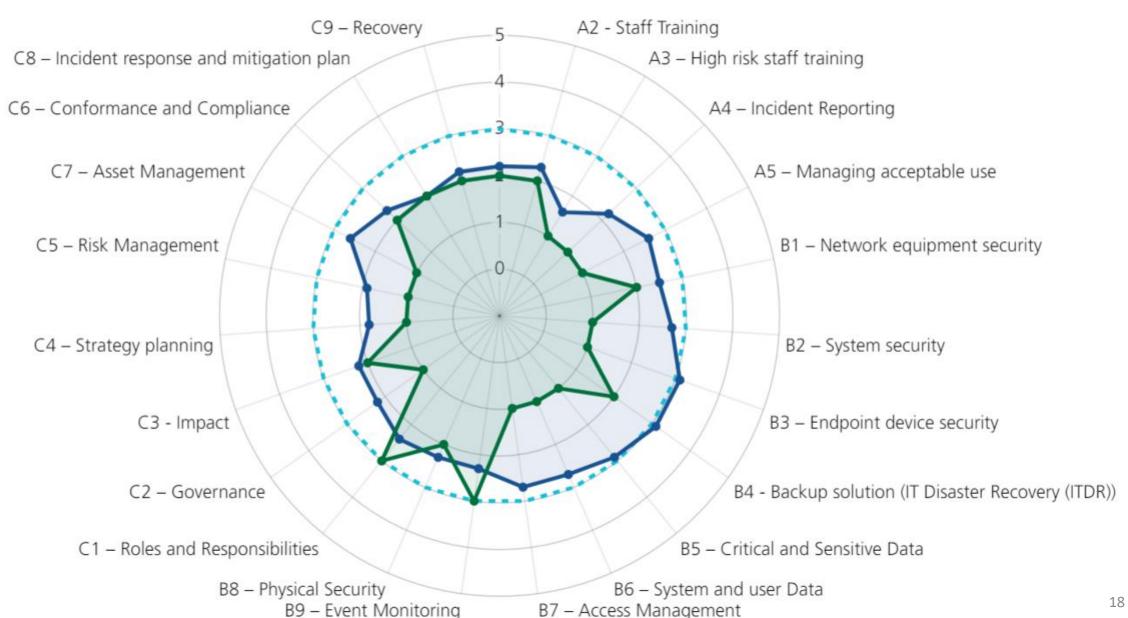
ASSESSMENT



- **A. People** e.g. staff induction
- **B. Systems** e.g. device security
- **C. Organisation** e.g. incident response

DASHBOARD

A1 - Staff induction/moves/exit







Assessment



Reports

Progress Summary Report **Detailed Summary Report** Action Plan Report Progress History Report Offline Tool



Certificates

Dashboard ▶ ■ Reports

Your Reports



Progress Summary Report

Progress: 35%

This report provides a high-level short overview of your current review. It includes; information about your account, users, a radar graph and easy-to-read high level information about individual aspects



Detailed Summary Report

Progress: 35%

This report provides you with the fullest report for your review. It includes; a summary of your account, users, and detailed information for each aspect, including current position, evidence and improvement plan information



Action Plan Report Progress: 35%

The action plan report provides you with a snapshot of your current progress. The report includes your ratings for each aspect, your comments, evidence and action notes, plus recommendations for improvement



Progress History Report

Progress: 35%

This report helps you see your review over time, looking at previous individual aspect levels and average values.



Offline Tool

Progress: 35%

Download all the content from the tool to use offline

Reports

- Range of reports
- Private to your school/MAT

Cyber Secure: Cyber Security **Check up for Schools**

Cyber Secure is free to use and helps you to review and improve your Cyber and Information Security in your school setting

Start Your Assessment

Building the foundations for cyber security

What is Cyber Secure?

Cyber Secure is a tool that allows schools to review and improve their cyber and information security policy and practice and self-assess their current provision. The tool is structured according to categories indicating the safety and security 'levels' establishments can achieve, with level 0 being the lowest and most basic, and level 5 the highest and most aspirational.

Why use it?

Cyber Secure is a powerful free tool designed by cyber and information security experts. Cyber Secure is designed to help achieve consistency in cyber security across educational establishments. It helps





83% of users highlighted improved knowledge about cyber security



Used by over 1000 schools





Next steps

- 1. Register at https://CyberSecureCheckForSchools.uk
- 2. Read the DfE Standards DFE- Cyber security standards for schools and colleges
- 3. Need further support?

About the Cyber Secure tool: cybersecure@swgfl.org.uk

DfE Standards advice & guidance: sector.securityenquiries@education.gov.uk

4. More resources and advice:

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

5. Need to report a cyber incident?

DfE: sector.incidentreporting@education.gov.uk

Contact the relevant authorities: Police, Action Fraud

Data breaches must be reported to the ICO

Q&A

Cyber Secure Frequently Asked Questions

https://cybersecurecheckforschools.uk/faqs/

