

Teacher Resources

Cyber Security/Forensics Resources (CYBR)

For additional resources teachers should use the links below and go to the Cyber Explorations website. Once there, teachers and students can log in to the high school club program.

The Cyber Explorations Pilot Program is “a collaboration between Longwood University, the Longwood Center for Cyber Security, Hanover County Public Schools, Superior Document Services, community mentors, and experts from around the Globe.”

Unit 1, Cyber Security Foundations

Virginia Laws Related to Computer/Internet-related Offense

<https://virginiarules.org/resources-and-publications/juvenile-law-handbook/>

Virginia Guidelines and Resources for Internet Safety in Schools

www.doe.virginia.gov/support/safety_crisis_management/internet_safety/index.shtml

https://www.doe.virginia.gov/support/safety_crisis_management/internet_safety/guidelines_resources.pdf

Critiquing Acceptable Use Policies

<http://www.primnet.com/~kinnaman/aupessay.html>

Unit 2, Social Engineering and Personal Cyber Security

Step-by-Step Procedure for Backup System Restore

<http://windows.microsoft.com/en-us/windows7/products/features/system-restore>

How DNS Works

<http://technet.microsoft.com/en-us/magazine/2005.01.howitworksdns.aspx>

Active Directory

<http://msdn.microsoft.com/en-us/library/windows/desktop/aa746492%28v=vs.85%29.aspx>

DHCP

<http://msdn.microsoft.com/en-us/library/windows/desktop/aa363383%28v=vs.85%29.aspx>

Verify that websites are secure

<http://info.ssl.com/article.aspx?id=10068>

Describe vulnerabilities associated with using automated teller machines (ATMs).

<http://www.bankinfosecurity.com/interviews/atm-security-3-key-vulnerabilities-i-1027>

<http://www.bankinfosecurity.com/search.php?keywords=ATM+Security>

Describe keylogging vulnerabilities.

<http://www.securelist.com/en/analysis?pubid=204791931>

Install service packs and updates.

<http://windows.microsoft.com/en-us/windows/service-packs-download#sptabs=win7>

Update installed applications.

<http://lifehacker.com/5495501/the-definitive-guide-to-keeping-your-pc-up-to-date>

Secure a router connection.

<http://www.pcmag.com/article2/0,2817,2409751,00.asp>

Secure a game console.

<http://www.staysafeonline.org/stay-safe-online/for-parents/gaming-tips#sthash.3zLIXSRF.dpuf>

Run an anti-virus scan.

<http://www.sophos.com/en-us/support/knowledgebase/63985.aspx>

Unit 3, Cyber Forensics

Spoliation and/or alteration

<http://civilprocedure.uslegal.com/discovery/spoliation-of-evidence/>

Create an imaging plan

http://en.wikipedia.org/wiki/Digital_forensic_process#Acquisition

Types of operating systems where common file systems are used

http://en.wikipedia.org/wiki/Comparison_of_file_systems

http://en.wikipedia.org/wiki/File_system

Artifacts/Registry

<http://support.microsoft.com/kb/256986>

http://en.wikipedia.org/wiki/Windows_Registry

Rule of Law

<http://conventions.coe.int/Treaty/Commun/ChercheSig.asp?NT=185&CL=ENG>

http://en.wikipedia.org/wiki/Convention_on_Cybercrime