

# 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](http://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](https://www.doe.virginia.gov/support/safety_crisis_management/internet_safety/guidelines_resources.pdf)

#### **Critiquing Acceptable Use Policies**

<http://www.prismnet.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](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/Comparison_of_file_systems)

[http://en.wikipedia.org/wiki/File\\_system](http://en.wikipedia.org/wiki/File_system)

**Artifacts/Registry**

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

[http://en.wikipedia.org/wiki/Windows\\_Registry](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](http://en.wikipedia.org/wiki/Convention_on_Cybercrime)