ICT CyberSecurity Essentials Objectives Matrix

The *ICT CyberSecurity Essentials* course focuses on fundamentals of personal online security and safety. Students will define challenges and solutions of cybersecurity, including Internet and social media safety, cyber-ethics, and copyright issues. Students will also learn about threats to computer systems and ways to secure their computers. This course includes topics especially relevant to students, such as cyberbullying, inappropriate texting, online gaming, and risk mitigation for young or new users of online media.

ICT CyberSecurity Essentials Objective	*ICT CyberSecurity Essentials* Courseware Lesson(s) and Section(s)
Domain 5.1: Demonstrate knowledge of Internet safety practices and policies to help protect your identity, including social networking risks, mobile device issues, privacy and cybersafety practices to protect your personal information.	
5.1.1: Describe risks associated with social networking sites (e.g., Facebook, Myspace, Twitter), and identify ways to reduce these risks.	**Lesson 1: Protecting Your Identity** - Protect Your Identity and Your Privacy
5.1.2: Define "privacy," and relate it to the term "digital footprint."	**Lesson 1: Protecting Your Identity** - Protect Your Identity and Your Privacy
5.1.3: Practice cybersafety techniques to protect your personal information when using Internet searches, e-mail, chat rooms and social network Web sites.	**Lesson 1: Protecting Your Identity** - Protect Your Identity and Your Privacy
Domain 5.2: Demonstrate knowledge of Internet safety practices to combat risks related to online social and recreational activities, including cyberbullying, inappropriate texting and online gaming.	
5.2.1: Describe cyberbullying, its impact on perpetrators and victims, and ways to respond.	**Lesson 2: Safety Risks in Online Activities** - Managing Online Risks
5.2.2: Describe risks associated with inappropriate texting (including legal issues, social consequences), and discuss methods for response, reporting and prevention.	**Lesson 2: Safety Risks in Online Activities** - Managing Online Risks
5.2.3: Describe the risks associated with online gaming, and identify ways to reduce these risks.	**Lesson 2: Safety Risks in Online Activities** - Managing Online Risks
Domain 5.3: Demonstrate knowledge of ethical and legal issues related to content found on the Internet, including music and videos downloaded from the Internet, and guidelines for copyright and fair use.	
5.3.1: Discuss issues related to downloading music or videos from the Internet, including unethical vs. illegal actions.	**Lesson 3: Legal and Ethical Issues of Online Content** - Copyright and Fair Use
5.3.2: Compare and contrast rules for copyright and fair use, especially in relation to using online resources for school and educational purposes.	**Lesson 3: Legal and Ethical Issues of Online Content** - Copyright and Fair Use

ICT CyberSecurity Essentials Objective	*ICT CyberSecurity Essentials* Courseware Lesson(s) and Section(s)
Domain 5.4: Demonstrate knowledge of security threats to computer systems (including common security threats, and viruses vs. malware), and perform countermeasures to secure a computer (including antivirus scans, strong passwords, and cybersafety techniques for protecting your computer when using the Internet).	
5.4.1: Distinguish between viruses and malware, and discuss their impact on personal privacy and computer operation.	**Lesson 4: Protecting your Computer from Security Threats** - Securing your Computer
5.4.2: Describe common threats used to spread malware and viruses, including phishing, pharming, trojans, spyware, malicious sites, "free" downloads.	**Lesson 4: Protecting your Computer from Security Threats** - Securing your Computer
5.4.3: Perform an antivirus scan on a computer system to check for viruses and malware.	**Lesson 4: Protecting your Computer from Security Threats** - Securing your Computer
5.4.4: Describe strong password practices.	**Lesson 4: Protecting your Computer from Security Threats** - Securing your Computer
5.4.5: Practice cybersafety techniques to protect your computer system when using Internet searches, e-mail and social network Web sites.	**Lesson 4: Protecting your Computer from Security Threats** - Securing your Computer
5.4.6: Identify security issues related to mobile phones, including personal information compromised if a phone is lost or stolen.	**Lesson 4: Protecting your Computer from Security Threats** - Securing your Computer