5.CYB.2 Cybersecurity

> *The student will explain how cybersecurity policies and laws are designed to protect individuals. (a) Explain the importance of policies and laws related to online use of computing devices and the Internet. (b) Research and discuss current cybersecurity policies and laws that protect Individuals. (c) Explain legal consequences for inappropriate use of computing technologies.*

Understanding the Standard

The internet allows us to connect with others and have access to their information instantly. However, it's important to protect personally identifiable information. To protect private information, many online platforms use authentication, or making sure that only certain individuals have access to a person's information, through the use of passwords, personal identification numbers (PIN), or two-factor authentication. However, some websites will collect data from users and share this data with other groups, so it is important to review a site's privacy policy to be informed about how your data may be used. While the focus of this standard is to protect data privacy, additional laws that protect intellectual property should also be considered. However, intellectual property is more deeply explored in the Impacts of Computing strand of the CS standards.

Term	Definition
Cybersecurity	Protecting digital data from loss, theft, or tampering
COPPA	Short for Children's Online Privacy Protection Act, this federal law prohibits websites from collecting information about children under the age of 13. COPPA helps protect an under age child's privacy by either restricting the child's website use without parents permission or not allowing that child to access the page because it collects data. (adapted from Computer Hope)
Privacy policy	An organization's policy on how it collects, stores, and releases personal information and whether or not said information is kept confidential, shared with partners or sold. (adapted from ComputerHope)

Prerequisite Knowledge

Students should have a basic understanding of safe and unsafe actions and knowledge of the word "private" as applied to information.

Integration Opportunities

English 5.W.1d Research current cybersecurity policies and write a response to explain how policies protect users with details and evidence that are logically grouped.

Music 5.8 Identify connections between intellectual property and privacy in the music industry and consequences related to inappropriate use of computing technologies.

Math 5.PFA.1a Research current cybersecurity laws and chart the sequence of changes in policies related to online safety and their impact on protecting individuals. Discuss how patterns can be identified and extended in real-life contexts.

Summary of a Lesson

In the context of preparing to use an online platform, review the language of COPPA and the privacy policy of the online service your class will be using. Clarify and explain terms and phrases for students and guide them to work in pairs or small groups to evaluate whether the online service adheres to COPPA provisions. Establish class procedures to ensure COPPA compliance and protection of data privacy.

This work is licensed under a CC-BY-SA-NC 4.0 International License
Attribute to "CodeVA 2024"