Lesson Plan Template

Course Name: Computer Science Principles
Unit/Theme: Cybersecurity
Time Frame: 1 week
Grade Level: HS

CONTENT AND SKILLS
Learning Objectives: • Computing innovations and data that is collected by third parties • Consider the benefits and risks of on-line usage
Essential Questions (optional): • What data should be kept private? • Where is the privacy policy on a website I use? • What are the benefits and risks associated with on-line usage?
Students I can statements . . . • I can identify personal information to keep private. • I can review a privacy policy to understand the risks of using this website.
How will you meet the needs of SWD and ELL/MLL students? How will you make sure this lesson is culturally responsive? In this series of lessons, students select their own website to review, illustrating voice and choice.
Content Standards List all standards and how learners will meet the standard
• IOC-1 While computing innovations are typically designed to achieve a specific purpose, they may have unintended consequences. • IOC-2 The use of computing innovations may involve risks to your personal safety and identity.
NYS Computer Science and Digital Fluency Standards List all standards and how learners will meet the standard
• 9-12.CY.1 Determine the types of personal and organizational information and digital resources that an individual may have access to that needs to be protected. • 9-12.CY.2 Describe physical, digital, and behavioral safeguards that can be employed to protect the confidentiality, integrity, and accessibility of information. • 7-8.CY.3 Describe trade-offs of implementing specific security safeguards.
CASEL COMPETENCIES and/or NYS SEL BENCHMARKS
• 2A.5a. demonstrate how to express understanding of those who hold different opinions. • 2A.4b. Use communication skills to gain understanding of others' feelings and

perspectives.

INSTRUCTIONAL PLAN

List the steps of the lesson, including instructions for the students.

- Start up with students individually responding to 18 items to keep private or know tallies from the group visible on the board. 9-12.CY.1
- Students research a website/search engine and the accompanying privacy policy after watching a video regarding privacy. They look for key words such as not, for example, such as, control. 9-12.CY.2
- Students work independently to learn about one of the following: keylogging, Phishing and Malware by watching a video in code.org. Students become the table expert by answering 3 questions: What is the security risk? how are people targeted? What are the warnings? Each student shares their learning with others in the group. Class summary on each of the 3. 9-12.CY.3

ASSESSMENT(S) / PROJECTS / PRODUCTS

- Handout regarding privacy policy
- Notes from researching one keylogging, phishing, malware, and then from classmates' shared information

INSTRUCTIONAL TECHNOLOGY INTEGRATION

- Student research on individual laptops

MATERIALS / RESOURCES

- Code.org
- Project Lead the Way CSP

Background and Prior Knowledge

- Students have some understanding about privacy from middle school technology classes.