

# Cyber Security – Security Risks Lesson Plan

**Lesson Title: Security Risks**  
**Grade Level: High School 11-12**

**Learning Objectives/Outcomes:** Upon completion student will be able to: Identify common security risks: phishing, keylogging, rogue access points, SQL injection, Man in the Middle, shoulder surfing, “virtual” dumpster diving, tailgating, Social Engineering, DDoS, Ransomware, etc.

**How will you facilitate learning?** Have you ever received an email or a text message that looked suspicious? Have you ever been unsure if you should open the message or click the link? What are the things that made you suspicious? Eg) Misspellings of words in an email, a certain vagueness, asking for account numbers, ss#, personal information.

**Description of Activity:**

A list of topics will be given to make a selection from of security risks. Each student will make a selection and create an INFOGRAPHIC about their topic. They will also consider what the global or societal impact is of this security risk? Eg.) Tools they can use to complete the infographic include: Canva, LucidPress, Venngage, or create a video using WeVideo, VDSC, Imovie and Student will take time to research the topic and give a 1-minute FLASH TALK on the topic with class (virtually or in person). If virtual, this could be a video they recorded of their talk then presented to the class.

**Summary:** Students will be selecting a topic on common security risks, researching that topic, creating an infographic on the topic, and sharing it with the class during a Flashtalk. Q&A to follow with 3 questions for the audience. Quizlet live to demonstrate their learning.

**Learning Types:** Presentation, Project, Writing Assignment, Observation

**Materials List:**  
Laptop, Internet for research

**Accommodations:**  
Students can work on this virtually or in class. Students may need to work on this in pairs but socially distanced in the classroom.