HOW TO GET STARTED IN CYBERSECURITY

Lesson Description

Students will identify how to get started in the cybersecurity field. This is an introductory lesson.

Prerequisite Knowledge

How to access the internet. How to use Word and Excel and/or Google Docs and Google Sheets.

Length of Completion

1 class period, 42 minutes.

Level of Instruction

High School, grades 9-12. Appropriate for all levels of learners.

Applicable Concepts

GenCyber Cybersecurity Concepts

- Availability
- Defense in Depth
- Confidentiality
- **Think Like an Adversary** ✓
- Integrity
- Keep it Simple
- **Careers** ✓

NYS Standards

9-12.IC.7 Investigate the use of computer science in multiple fields.

Resources that are Needed

Computer, access to the internet, access to Google and YouTube.

- Youtube Video: Cybersecurity 101, Nova PBS
  https://www.youtube.com/watch?v=sdpxddDzXfE
  Accessed Aug 8, 2022
- Google Slides: How to Get Started in Cybersecurity, Nova
  https://docs.google.com/presentation/d/1W17Snm4Y0lHXiRYDljYstA9KA0JnUWGRMoiRdWYDnDY/copy
- YouTube Video: 2022 Cybersecurity roadmap: How to get started?
  https://www.youtube.com/watch?v=mS7qWC3CbOU
  August 8, 2022
- Google Doc: Interview with John Hammond - Student Copy
  https://docs.google.com/document/d/1jcmCLy9JUUbaRwK94FboWjBSrD47x3CvkkqlcFWiWuM/copy
- Google Doc: Interview with John Hammond - Summary Key
  https://docs.google.com/document/d/1iNgAodkYY0VSAXhbMbpg28FQTHJm8rPVkuVieCTCUIE/copy

LEARNING OUTCOMES

LESSON LEARNING OUTCOMES (VERDANA, 12 PT, ALL CAPS)
- Explain why Cybersecurity is important and how it can lead to a dynamic career path.
- Identify how to get started in cybersecurity.

LESSON DETAILS

Interconnection

Cybersecurity Jobs, Skills and Career Paths

Assessment
Written and oral questions for class participation.

Extension Activities
None: Introductory lesson.

Differentiated Learning Opportunities

None: This is an introductory lesson.

LESSON

Lesson 1 Details
Warm Up

Anticipatory set shown in the Google Slides presentation titled *How to Get Started in Cybersecurity* linked below under Expository approach. There is a list of job titles with the question: "What do all of the people in these jobs have in common?" Hoping to get an answer related to "They all had to start somewhere."

Lesson

How to Get Started in Cybersecurity, Google Slides
https://docs.google.com/presentation/d/1W17Snm4Y0lHXiRYDljYstA9KA0JnUWGRMoiRdWYDnDY/copy

Cybersecurity 101, Nova PBS
https://www.youtube.com/watch?v=sdpxddDzXfE
August 8, 2022

2022 Cybersecurity roadmap: How to get started?, David Bombal
https://www.youtube.com/watch?v=mS7qWC3CbOU
August 8, 2022

Questions for students
https://docs.google.com/document/d/1jcmCLy9JUUbaRwK94FboWjBSrD47x3CvkkqlcFWiWuM/copy

Summary Key

https://docs.google.com/document/d/1jcmCLy9JUUbaRwK94FboWjBSrD47x3CvkkqlcFWiWuM/copy