Objectives: *Unit 3 Lesson 1 CIA Triad and Authentication*

	Lesson Objectives	Cyber.org Standards
CIA Triad and Authentication	Understand what confidentiality, integrity and availability are Understand and describe concepts related to CIA such as authentication and encryption Describe a scenario where a part of the CIA Triad has failed Understand and describe authentication and authorization and the difference between the two Understand and describe the various methods of authentication such as passwords, biometrics, multi-factor authentication Understand and describe the characteristics of a good/strong password	6-8.SEC.CIA Explain the effects of a failure of the CIA Triad 6-8.SEC.AUTH Explain how authentication and authorization methods can protect authorized users

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Objectives: *Unit 3 Lesson 2 Internet of Things and Backup*

	Lesson Objectives	Cyber.org Standards
Internet of Things and Backup	Describe what a digital footprint is Understand what an IoT device is and common use cases Describe and understand that IoT devices collect and share huge amounts of data globally Identify common IoT devices Understand and describe the risks and benefits of IoT Understand the vulnerabilities associated with IoT devices Identify different data storage devices (local and cloud) Understand the importance of backing up and automatic backing up on cloud services	6-8.DC.FOOT.1 Recognize the many sources of data that make up a digital footprint 6-8.CS.IOT Evaluate the risks and benefits of Internet of Things devices 9-12.CS.IOT Analyze the vulnerabilities of Internet of Things devices 6-8.CS.LOSS Explain the role and importance of backups

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Objectives: *Unit 3 Lesson 3 Cryptography*

	Lesson Objectives	Cyber.org Standards
Cryptography	Understand what cryptography is and how it protects information Understand and describe how simple (Caesar cypher etc.) and more complex (Enigma etc.) encryption methods work Understand and discuss scenarios where there is a need for encryption	6-8.SEC.CRYP Discuss methods and the need for encrypting information when it is being exchanged, e.g., http vs. https

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Objectives: *Unit 3 Lesson 4 Access Controls*

	Lesson Objectives	Cyber.org Standards
Access Controls	Understand what privileged data is Understand and describe different levels of authority and the data they may require access to Understand what access control is Understand the principle of least privilege Understand an access control list Understand firewalls and how they use allow and block lists Understand and describe attacks and how they can be responded to	6-8.SEC.ACC Explain the concept of access control and how to limit access to authorized users 6-8.CS.COMP Identify the role of connected network components 6-8.SEC.COMP Describe Defense in Depth strategies to protect simple networks

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