

Cyber Security: Unit1: What is Cybersecurity

Stage 1 Desired Results

ESTABLISHED GOALS:

Competencies:

- Students will demonstrate the ability to effectively communicate by creating a digital product.
- Students will demonstrate the ability to manipulate and analyze data in order to solve problems.
- Students will demonstrate the ability to engage appropriately with a variety of digital tools to understand their place in the digital world.
- Students will demonstrate the ability to select and utilize a variety of digital tools to meet their learning objectives.
- Students will demonstrate the ability to analyze and summarize text and integrate knowledge to make meaning of discipline-specific materials.
- Students will demonstrate the ability to produce coherent and supported writing in order to communicate effectively for a range of discipline-specific tasks, purposes, and audiences.
- Students will demonstrate the ability to speak purposefully and effectively by strategically making decisions about content, language use, and discourse style.

Content Standards:

- 2-IC-20 Compare tradeoffs associated with computing technologies that affect people's everyday activities and career options.
- 3A-IC-29: Explain the privacy concerns related to the collection and generation of data through automated processes that may not be evident to users.
- 3A-IC-30: Evaluate the social and economic implications of privacy in the context of safety, law, or ethics.
- 3A-NI-05: Give examples to illustrate how sensitive data can be affected by malware and other attacks

Transfer

*Students will be able to independently use their learning to **become responsible citizens in a digital future.***

Meaning

ENDURING UNDERSTANDINGS

Students will understand that...

- Companies and individuals must take precautions to protect themselves in an era of digital information.
- Flawed security systems and practices can expose private information to hackers and other internet users.

ESSENTIAL QUESTIONS

- Is storing information electronically safe?

Acquisition

Students will know...

- That the internet provides access to powerful tools and information, but that there are risks associated with those capabilities.
- That there are steps everyone can take to protect their identity and data.

vocabulary: cybersecurity, cyber attack, confidentiality, Internet of Things.

Students will be skilled at...

- Taking simple steps to protect themselves when navigating cyberspace.
- Identifying the sort of information that cyber criminals are looking to steal
- Recognizing the risks associated with Internet of Things devices and implementing basic protections.

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Content Area Literacy Standards		21st Century Skills
RST.9-10.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to <i>grades 9-10 texts and topics</i>. RST.11-12.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text. RST.11-12.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to <i>grades 11-12 texts and topics</i>. RST.11-12.9 Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible. WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.		• <i>Reason Effectively</i> • <i>Access and Evaluate Information</i> • <i>Be Self-directed Learners</i> • <i>Solve Problems</i>

Stage 2 - Evidence

<i>Evaluative Criteria</i>	<i>Assessment Evidence</i>
	PERFORMANCE TASK(S):
	OTHER EVIDENCE:

Stage 3 – Learning Plan

Summary of Key Learning Events and Instruction

<i>Language Arts Integration</i>	<i>Mathematics Integration</i>
1.OA.1 Use	1.OA.1 Use
<i>Technology Integration</i>	<i>District Materials</i>
1.OA.1 Use	