Intel® Skills for Innovation

Intel® and CYBER.ORG Partner to Equip Educators with Cybersecurity-Aligned Learning Content

Over 60 Intel Skills for Innovation Starter Packs now aligned with CYBER.ORG's K-12 Cybersecurity Learning Standards, empowering K–12 educators to integrate real-world cybersecurity skills into STEAM learning.

View Standards Mapping

About the CYBER.ORG K–12 Cybersecurity Learning Standards

Developed with support from the U.S. Department of Homeland Security's Cybersecurity and Infrastructure Security Agency (CISA), the CYBER.ORG K–12 Cybersecurity Learning Standards provide a national framework to guide cybersecurity education from elementary through high school.

Widely adopted across the U.S. for curriculum development, these standards help students build essential knowledge of threat detection, digital hygiene, encryption, data privacy, and ethical technology use.

As cyber threats grow more complex, the standards prepare students for digital citizenship, workforce readiness, and national security needs, equipping them with the skills to navigate and protect an increasingly connected world.

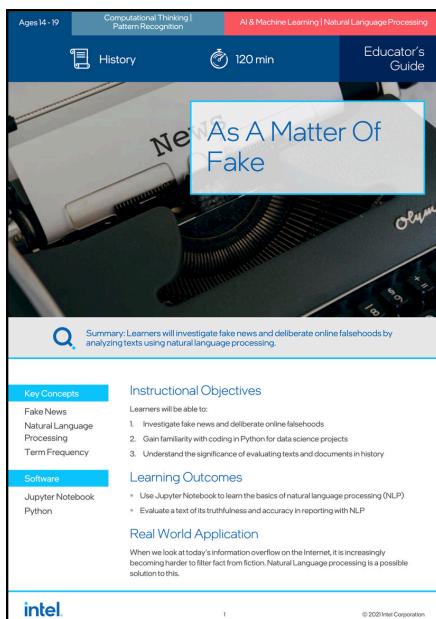## Expanding Cybersecurity Learning Opportunities for K–12 Classrooms

Intel® Skills for Innovation (SFI) and CYBER.ORG announced a new partnership to align SFI Starter Packs with the nationally recognized CYBER.ORG K–12 Cybersecurity Learning Standards.

This collaboration equips teachers and students with critical future-ready cybersecurity skills through engaging, standards-aligned content that connects classroom learning to real-world applications.

Connecting Cybersecurity Standards to Starter Packs

Over 60 SFI Starter Packs have been reviewed and mapped to the K–12 Cybersecurity Learning Standards, covering multiple subjects and grade bands including elementary, middle, and high school.

Completed in collaboration with CYBER.ORG curriculum experts, this review highlights the alignment between the SFI Starter Packs and key cybersecurity topics such as data security, digital identity, cyber ethics, and networks. Each aligned Starter Pack is designed to promote inquiry-based learning and hands-on, project-based experiences delivered through a cybersecurity lens.

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As A Matter Of Fake

Summary: Learners will investigate fake news and deliberate online falsehoods by analyzing texts using natural language processing.

Key Concepts
Fake News
Natural Language Processing
Term Frequency

Software
Jupyter Notebook
Python

Instructional Objectives
Learners will be able to:
1. Investigate fake news and deliberate online falsehoods
2. Gain familiarity with coding in Python for data science projects
3. Understand the significance of evaluating texts and documents in history

Learning Outcomes
• Use Jupyter Notebook to learn the basics of natural language processing (NLP)
• Evaluate a text of its truthfulness and accuracy in reporting with NLP

Real World Application
When we look at today's information overflow on the Internet, it is increasingly becoming harder to filter fact from fiction. Natural Language processing is a possible solution to this.

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Featured Starter Pack: **As A Matter of Fake**

Grade Level: Middle School   **Subject**: Social Studies / History
Skillset: Computational Thinking   **Mindset**: AI & Machine Learning

Students use Google Colab to explore the basics of Natural Language Processing (NLP) and evaluate the accuracy of online articles. They learn how AI models can identify bias, detect misinformation, and enhance digital literacy.

Aligned K-12 Cybersecurity Learning Standards:
• 9-12.DC.PPI.1 – Explain the importance of social identity and implications of online activity.
• 9-12.DC.FOOT – Examine the implications of positive and negative digital footprints.
• 9-12.DC.ETH – Discuss the role that cyber ethics plays in current society.
• 9-12.DC.THRT – Analyze the motives of threat actors.

Student Outcome: Learners build awareness of real-world cybersecurity implications in daily life and develop critical thinking about how to interpret online news.

Download: Windows | Chrome

From Intel and CYBER.ORG Leadership

"Intel Skills for Innovation is focused on helping educators and students build the mindset and capabilities needed for a secure, technology-driven world," said **Luigi Pessina, Global Education Program Director, Intel Corporation.** "Through this alignment with CYBER.ORG's K–12 Learning Standards, we're supporting teachers with clear, standards-based resources that make cybersecurity and digital literacy part of everyday learning."

"Our partnership with Intel SFI represents a powerful step forward in making cybersecurity and technology education more accessible and engaging for K–12 classrooms," said **Charlene Cooper, Director of CYBER.ORG.** "By aligning CYBER.ORG's K–12 Cybersecurity Learning Standards with Intel SFI Starter Packs, we're giving educators ready-to-use, standards-aligned activities that connect classroom learning to real-world experiences and inspire the next generation of innovators and cyber professionals."

About Intel® Skills for Innovation

Intel Skills for Innovation (SFI) enables educators to create meaningful, technology-powered learning experiences that build 21st-century skills. Its Starter Packs are turnkey, project-based modules designed to integrate seamlessly into existing curricula, empowering teachers to foster innovation, problem-solving, and future readiness in every classroom.

About CYBER.ORG

CYBER.ORG, the academic and workforce initiative of the Cyber Innovation Center, is dedicated to advancing cybersecurity education and workforce development across K–12 and higher education. Supported in part by the Cybersecurity and Infrastructure Security Agency (CISA), CYBER.ORG provides curriculum written to industry certification objectives, professional development, and hands-on resources to teach cybersecurity education to K-12 students nationwide. With content used in over 10,000 schools in all 50 states by over 45,000 educators, CYBER.ORG empowers students with real-world skills and career-connected learning pathways. By 2029, CYBER.ORG aims to support over 50,000 educators and impact six million students, helping shape a future-ready cybersecurity workforce.

Contact Information

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