

# K-12 Cybersecurity Learning Standards Fact Sheet

**The K-12 Cybersecurity Learning Standards will help increase cybersecurity literacy and build a robust pipeline of future cybersecurity talent.**

- The standards aim to ensure that students not only have a foundational understanding of cybersecurity, but also the skills and knowledge needed to pursue cybersecurity careers in greater numbers.

**The K-12 Cybersecurity Learning Standards are the first effort to align cybersecurity learning criteria across all 50 states.**

- Until now, there have only been a few models of state-developed cybersecurity standards and no national standards specific to cybersecurity.
- The standards aim to bridge this gap and help align developers and teachers.

**The K-12 Cybersecurity Learning Standards will be used in schools and districts around the country.**

- States now have the option to adopt the K-12 cybersecurity learning standards ahead of the 2022-2023 school year.
- Districts can also adopt the standards in full or embed them into existing content standards.

**The K-12 Cybersecurity Learning Standards center around three core themes: Computing Systems (CS), Digital Citizenship (DC) and Security (SEC).**

- These themes represent key fundamentals in cybersecurity education.
- Each core concept covers a range of cutting-edge cybersecurity topics, from the Internet of Things (IoT) to Threat Actors.

**The K-12 Cybersecurity Learning Standards are critical to guaranteeing that the future cybersecurity workforce is equipped to handle the cybersecurity challenges of tomorrow.**

- The global cybersecurity workforce shortage is [projected to reach](#) 1.8 million unfilled positions by 2022, making the effort to standardize and prioritize cybersecurity curriculum in K-12 classrooms more important than ever.
- The standards aim to build a strong, more diverse talent pipeline to protect U.S. national security and maintain U.S. competitiveness on the world stage, while helping address the cybersecurity workforce shortage.

**Since the kickoff of this initiative in September 2020, CYBER.ORG has engaged experts across various fields to help craft the standards.**

- CYBER.ORG convened a writing committee of K-12 educators and collected input from key stakeholders across education, government, and industry to increase the relevancy and value of the standards.
- Some of the organizations involved in the standards process include: [EduTech](#), [Maricopa County Regional School District](#), [Grambling State University](#), [Louisiana Tech University](#), [Palo Alto Networks](#), [Southwest Airlines](#), [Cybersecurity Infrastructure Security Agency \(CISA\)](#), [National Initiative for Cybersecurity Education \(NICE\)](#), and the [National Security Agency \(NSA\)](#).
- The standards development process was facilitated by [McREL International](#), a nonprofit, nonpartisan education research, development and service organization that helps schools, districts and education agencies improve outcomes for students.