

Name

Date

AP CSP Summer Assignment

Read the following article ([What is Cybersecurity and Why is It Important?](#)) and answer the questions below based on your understanding of cybersecurity.

1. The article defines cybersecurity as the practice of protecting computer systems and electronic data from cyber threats. Given the increasing integration of technology in daily life, how do you think cybersecurity impacts various sectors such as education, healthcare, and government?
2. Rodney Royster, a cybersecurity adjunct instructor at SNHU, emphasizes the importance of practices and tools in mitigating cyber threats. What skills and knowledge do you believe are essential for individuals pursuing a career in cybersecurity, and how can high school students begin to develop these competencies?
3. The article mentions incidents where cybercriminals steal sensitive information from corporations' computer systems. Reflecting on recent news stories, can you identify a specific cyberattack and discuss its impact on the affected organization and its stakeholders?
4. With the growing prevalence of cyber threats, the article suggests an increasing need for cybersecurity professionals. In your opinion, how should high schools incorporate cybersecurity education into their curricula to better prepare students for future challenges in the digital world?
5. Cybersecurity involves protecting data and systems, but it also raises ethical questions regarding privacy and surveillance. How can cybersecurity professionals balance the need for security with the rights of individuals, and what ethical guidelines should govern their practices?
6. How do you think the rapid advancement of technology, such as IoT devices and cloud computing, influences the complexity and importance of cybersecurity?
7. What role do individuals—beyond cybersecurity professionals—play in maintaining cybersecurity in their personal and professional lives? How can awareness and behavior impact overall security?

8. Considering the global nature of cyber threats, how important is international cooperation in cybersecurity, and what challenges might arise in creating such collaboration?