North Dakota Computer Science and Cybersecurity

10th Grade

Networks & Internet: Networks link computers and devices locally and around the world allowing people to access and communicate information 10.NI	**1** Identify and define different network connection types (e.g., Wi-Fi, mobile data, ethernet). 10.NI.1
	2 Identify networkable devices. 10.NI.2
Hardware & Software: Devices, hardware, and software work together as a system to accomplish tasks. 10.HS	**1** Continued growth. 10.HS.1
	2 Recognize the importance of and effectively perform software and security patches/updates. (CYSEC) 10.HS.2
	3 Identify important data or systems that need redundancy. (CYSEC) 10.HS.3
Troubleshooting: Strategies for solving technology system problems. 10.T	**1** Follow appropriate guidelines that convey systematic troubleshooting techniques to identify and fix errors. 10.T.1
Problem Solving & Algorithms: Strategies for understanding and solving problems 10.PSA	**1** Create and test an algorithm to solve a complex problem across disciplines. 10.PSA.1
Data Creation & Analysis: Data can be collected, used, and presented with computing devices or digital tools. 10.DCA	**1** Represent complex data in more than one way to support a claim. 10.DCA.1
Access: Effective searches strategies can locate information for intellectual or creative pu	**1** Curate relevant information from digital resources using a variety of tools and methods. 10.A.1

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Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose. 10.E	1	**Gather accurate, credible, and relevant sources of information, media, data, or other resources showing different perspectives.** 10.E.1
Create: It is important to both consume and produce information to be digitally literate. 10.C	1	**Choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication.** 10.C.1
Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property. 10.IP	1	**Demonstrate an understanding of and respect for the rights and obligations of using and sharing intellectual property.** 10.IP.1
	2	**Continued growth.** 10.IP.2
	3	**Continued growth.** 10.IP.3
Impacts of Computing: Past, present, and possible future impact of technology on society. 10.IC	1	**Evaluate the social, personal, and economic implications technology has on society and the economy.** 10.IC.1
Social Interactions: Technology facilitates collaboration with others. 10.SI	1	**Evaluate the impacts of technology on social interactions.** 10.SI.1
Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology. 10.SE	1	**Implement best practices to secure personal information. (CYSEC)** 10.SE.1
	2	**Recognize the importance of monitoring your private data. (CYSEC)** 10.SE.2
	3	**Manage personal data to maintain digital privacy and security and are aware of data collection technology used to track online behaviors. (CYSEC)** 10.SE.3
	4	**Identify if their private data has been altered and can react appropriately. (CYSEC)** 10.SE.4
Responsible Use: Respect and dignity in virtual and physical communities. 10.RU	1	**Continued growth.** 10.RU.1
	2	**Continued growth.** 10.RU.2
	3	**Continued growth.** 10.RU.3
		Inderstand the purpose of and comply with Acceptable Use Policies. 10.RU.4

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Digital Identity: The responsibilities and opportunities that come with living, learning, and working in an interconnected digital world. 10.DI

1 **Continued growth.** 10.DI.1