North Dakota Computer Science and Cybersecurity

3rd Grade

Networks & Internet: Networks link computers and devices locally and around the world allowing people to access and communicate information. 3.NI	1	**Recognize that information is sent and received over physical or wireless paths.** 3.NI.1
Hardware & Software: Devices, hardware, and software work together as a system to accomplish tasks. 3.HS	1	**Identify the components and the basic functions of a computer system including peripherals and external storage features.** 3.HS.1
	2	**Independently use a computing device to perform a variety of tasks.** 3.HS.2
	3	**Recognize users have different technology needs and preferences.** 3.HS.3
Troubleshooting: Strategies for solving technology system problems. 3.T	1	**With guidance, apply basic troubleshooting strategies.** 3.T.1
Problem Solving & Algorithms: Strategies for understanding and solving problems. 3.PSA	1	**Solve a task by breaking it into smaller pieces.** 3.PSA.1
	2	**Debug a program that includes sequencing.** 3.PSA.2
Data Creation & Analysis: Data can be collected, used, and presented with computing devices or digital tools. 3.DCA	1	**Collect and organize data in various visual formats.** 3.DCA.1
Development & Design: Design processes to create new, useful, and imaginative solutions to pr	1	**Independently or collaboratively create programs that use sequencing and looping.** 3.DD.1
	2	**Convert an algorithm into code.** 3.DD.2

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Access: Effective search strategies can locate information for intellectual or creative pursuits. 3.A	1	**Use basic search strategies with teacher-selected online sources.** 3.A.1
Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose. 3.E	1	**With guidance, compare and contrast resources based on content and the author's purpose.** 3.E.1
Create: It is important to both consume and produce information to be digitally literate. 3.C	1	**Independently or collaboratively, create a digital product.** 3.C.1
Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property. 3.IP	1	**Define copyright.** 3.IP.1
	2	**With guidance, identify the elements of a citation.** 3.IP.2
	3	**Explain piracy and plagiarism.** 3.IP.3
Impacts of Computing: Past, present, and possible future impact of technology on society. 3.IC	1	**Identify technologies that have changed the world.** 3.IC.1
Social Interactions: Technology facilitates collaboration with others. 3.SI	1	**Recognize that there are various collaborative technologies.** 3.SI.1
	2	**With guidance, use collaborative technology to seek out diverse perspectives.** 3.SI.2
Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology. 3.SE	1	**Identify problems that relate to inappropriate use of computing devices and networks. (CYSEC)** 3.SE.1
	2	**Keep authentication methods confidential and be proactive if they are compromised. (CYSEC)** 3.SE.2
	3	**Recognize that data-collection technology can be used to track navigation online. (CYSEC)** 3.SE.3
	4	**Identify the difference between public and private information. (CYSEC)** 3.SE.4

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Responsible Use: Respect and dignity in virtual communities. 3.RU	**1** **Identify and discuss positive and negative uses of technology and information and their impact.** 3.RU.1
	2 **Recognize similarities and differences between in-person bullying and cyberbullying.** 3.RU.2
	3 **Develop a code of conduct, explain, and practice appropriate behavior and responsibilities while participating in an online community.** 3.RU.3
	4 **Comply with Acceptable Use Policies.** 3.RU.4
Digital Identity: Responsibilities and opportunities of living, learning, and working in an interconnected digital world. 3.DI	**1** **Recognize the permanence of their actions in the digital world.** 3.DI.1