North Dakota Computer Science and Cybersecurity

4th Grade

Networks & Internet: Networks link computers and devices locally and around the world allowing people to access and communicate information. 4.NI	1	**Recognize that computing devices can be connected in a variety of ways to share information.** 4.NI.1
Hardware & Software: Devices, hardware, and software work together as a system to accomplish tasks. 4.HS	1	**Explain the difference between hardware and software.** 4.HS.1
	2	**Continued growth.** 4.HS.2
	3	**Continued growth.** 4.HS.3
Troubleshooting: Strategies for solving technology system problems. 4.T	1	**Continued growth.** 4.T.1
Problem Solving & Algorithms: Strategies for understanding and solving problems. 4.PSA	1	**Decompose (break down) a large task into smaller, manageable subtasks.** 4.PSA.1
	2	**Debug a program that includes sequencing or loops.** 4.PSA.2
	3	**Identify multiple solutions to a task.** 4.PSA.3
Data Creation & Analysis: Data can be collected, used, and presented with computing devices or digital tools. 4.DCA	1	**Organize and present collected data visually to highlight comparisons.** 4.DCA.1
Development & Design: Design processes to create new, useful, and imaginative solutions to pr	1	**Independently and collaboratively create programs that use sequencing, loops, and conditionals.** 4.DD.1

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Access: Effective search strategies can locate information for intellectual or creative pursuits. 4.A	**1**	**Use multiple teacher-selected online resources to locate information.** 4.A.1
Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose. 4.E	**1**	**With guidance, use a strategy to evaluate information for research purposes.** 4.E.1
Create: It is important to both consume and produce information to be digitally literate. 4.C	**1**	**Continued growth.** 4.C.1
Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property. 4.IP	**1**	**Demonstrate an understanding of copyright and fair use.** 4.IP.1
	2	**With guidance, create a citation.** 4.IP.2
	3	**With guidance, use strategies to avoid piracy and plagiarism.** 4.IP.3
Impacts of Computing: Past, present, and possible future impact of technology on society. 4.IC	**1**	**Give examples of technologies that influence society today.** 4.IC.1
Social Interactions: Technology facilitates collaboration with others. 4.SI	**1**	**With guidance, use collaborative technology to interpret diverse perspectives.** 4.SI.1
Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology. 4.SE	**1**	**Identify and explain issues related to responsible use of technology and information and describe personal consequences of inappropriate use. (CYSEC)** 4.SE.1
	2	**Create secure authentication to insure privacy. (CYSEC)** 4.SE.2
	3	**Continued growth.** 4.SE.3
	4	**Recognize when it is safe to share private information online. (CYSEC)** 4.SE.4
Re **Re**		**Discuss basic issues related to the appropriate use of technology and information, and the consequences of inappropriate use.** 4.RU.1

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virtual communities. 4.RU	**2** **Identify strategies for dealing responsibly with cyberbullying and reporting inappropriate behavior.** 4.RU.2
	3 **Continued growth.** 4.RU.3
	4 **Comply with Acceptable Use Policies.** 4.RU.4
Digital Identity: Responsibilities and opportunities of living, learning, and working in an interconnected digital world. 4.DI	**1** **Explain the importance of your digital identity.** 4.DI.1