North Dakota Computer Science and Cybersecurity

1st Grade

Networks & Internet: Networks link computers and devices locally and around the world allowing people to access and communicate information. 1.NI	1	**Recognize that connecting computing devices allows information sharing.** 1.NI.1
Hardware & Software: Devices, hardware, and software work together as a system to accomplish tasks. 1.HS	1	**Use appropriate terminology to identify common computing devices and components.** 1.HS.1
	2	**With guidance, use a computing device to perform a variety of tasks.** 1.HS.2
	3	**Recognize users have different technology needs.** 1.HS.3
Troubleshooting: Strategies for solving technology system problems. 1.T	1	**Understand technology systems might not work as expected and with guidance, use appropriate terminology to describe a problem.** 1.T.1
Problem Solving & Algorithms: Strategies for understanding and solving problems. 1.PSA	1	**Solve a problem through trial and error using given materials/resources.** 1.PSA.1
	2	**Follow a set of instructions (algorithms) in order to complete a task.** 1.PSA.2
	3	**Define debug.** 1.PSA.3
	4	**Identify and practice debugging strategies including 'Go back to when it worked'.** 1.PSA.4
Data Creation & Analysis: Data can be collected, used, and presented with computing devices or digital tools. 1.DCA	1	**With guidance, identify and interpret data from a chart or graph in order to make a prediction with or without a computing device.** 1.DCA.1
De		**With guidance, create programs to accomplish tasks that includes sequencing or looping.** 1.DD.1

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imaginative solutions to problems. 1.DD		
Access: Effective search strategies can locate information for intellectual or creative pursuits. 1.A	**1**	**Use a keyword search with a teacher-selected online resource.** 1.A.1
Evaluate: Information sources can be evaluated for accuracy, currency, appropriateness, and purpose. 1.E	**1**	**With guidance, evaluate information for research purposes.** 1.E.1
Create: It is important to both consume and produce information to be digitally literate. 1.C	**1**	**Independently or with guidance, create a digital product.** 1.C.1
Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property. 1.IP	**1**	**Understand that creative works have owners.** 1.IP.1
	2	**With guidance, give credit to the creator of a creative work.** 1.IP.2
Impacts of Computing: Past, present, and possible future impact of technology on society. 1.IC	**1**	**Identify how technologies are used in and out of school.** 1.IC.1
Social Interactions: Technology facilitates collaboration with others. 1.SI	**1**	**With guidance, use technology to share thinking with peers.** 1.SI.1
Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology. 1.SE	**1**	**Identify how to use technology in safe and correct ways. (CYSEC)** 1.SE.1
	2	**Understand the differences between a username and authentication methods and independently use them to access technology. (CYSEC)** 1.SE.2
Re Re	Skip to main content	**dentify positive and negative behaviors when using electronic communication. CYSEC)** 1.RU.1

virtual communities. 1.RU	**2** **Discuss reporting inappropriate electronic content. (CYSEC)** 1.RU.2
	4 **Comply with Acceptable Use Policies.** 1.RU.4
Digital Identity: Responsibilities and opportunities of living, learning, and working in an interconnected digital world.	**1** **Recognize that you have a digital identity.** 1.DI.1