

Essential Skills: Networks & the Internet: Network Communication & Organization

Grade	Standards: NI.NCO.01	Essential Skills
K	Recognize that basic computing devices and components can be connected to one another.	Provide examples of networks of devices and uses of the internet. Describe communication with others via email, video chat, etc. in the context of a network of devices
1	Recognize that computing devices can be connected through physical or wireless pathways.	Describe or show how computing components , such as monitors and keyboards are connected via physical or wireless pathways,
2	Recognize that by connecting computing devices together they can share information (e.g., printers, scanners, internet, display devices).	Utilize a network to perform specific functions such as printing or sharing documents by sharing information among computing devices.
3	Recognize how information is sent and received over physical and wireless pathways.	Explain that information moves over the internet along physical wires and wireless connections.
4	Summarize how information is sent and received over physical and wireless pathways (e.g., information is deconstructed in smaller pieces called packets , transmitted to final destination, and reassembled).	Examine the reasons for deconstructing information into packets . Describe the role of packets in transmitting information efficiently over the internet.
5	Model how information is deconstructed into packets (smaller pieces), transmitted through multiple computing devices over the internet and networks , and reassembled at the final destination.	Illustrate (in words, pictures, dramatization and/or animation) how the transmission of packets occurs through multiple devices over the Internet.

Skills for Standard: NI.NCO.01 Grades K-5

These annotations are a collaboration between [Maryland Center for Computing Education](#) and the [Maryland State Department of Education](#).