

Computer Science and Digital Fluency Learning Standards

Standards at a Glance

Grades K-1

Impacts of Computing



Subconcept	Standard
Society	K-1.IC.1 Identify and discuss how tasks are accomplished with and without computing technology.
	K-1.IC.2 Identify and explain classroom and home rules related to computing technologies.
Ethics	K-1.IC.3 Identify computing technologies in the classroom, home, and community.
	K-1.IC.4 Identify public and private spaces in our daily lives.
	K-1.IC.5 <i>This Standard begins in Grade Band 2–3.</i>
Accessibility	K-1.IC.6 With teacher support, identify different ways people interact with computers and computing devices.
Career Paths	K-1.IC.7 Identify multiple jobs that use computing technologies.

Computational Thinking



Subconcept	Standard
Modeling and Simulation	K-1.CT.1 Identify and describe one or more patterns (found in nature or designed), and examine the patterns to find similarities and make predictions.
Data Analysis and Visualization	K-1.CT.2 Identify different kinds of data that can be collected from everyday life.
	K-1.CT.3 Identify ways to visualize data, and collaboratively create a visualization of data.
Abstraction and Decomposition	K-1.CT.4 Identify a problem or task and discuss ways to break it into multiple smaller steps.
	K-1.CT.5 Recognize that the same task can be described at different levels of detail.
Algorithms and Programming	K-1.CT.6 Follow an algorithm to complete a task.
	K-1.CT.7 Identify terms that refer to different concrete values over time.
	K-1.CT.8 Identify a task consisting of steps that are repeated, and recognize which steps are repeated.
	K-1.CT.9 Identify and fix (debug) errors within a simple algorithm.
	K-1.CT.10 Collaboratively create a plan that outlines the steps needed to complete a task.

Networks & System Design



Subconcept	Standard
Hardware and Software	K-1.NSD.1 Identify ways people provide input and get output from computing devices.
	K-1.NSD.2 Identify basic hardware components that are found in computing devices.
	K-1.NSD.3 Identify basic hardware and/or software problems.
Networks and the Internet	K-1.NSD.4 Identify how protocols/rules help people share information over long distances.
	K-1.NSD.5 Identify physical devices that can store information.

Cybersecurity



Subconcept	Standard
Risks	K-1.CY.1 Identify reasons for keeping information private.
Safeguards	K-1.CY.2 Identify simple ways to help keep accounts secure.
	K-1.CY.3 <i>This Standard begins in Grade Band 2–3.</i>
	K-1.CY.4 Decode a word or short message using a simple code.
Response	K-1.CY.5 Identify when it is appropriate to open and/or click on links or files.

Digital Literacy



Subconcept	Standard
Digital Use	K-1.DL.1 Identify and explore the keys on a keyboard.
	K-1.DL.2 Communicate and work with others using digital tools.
	K-1.DL.3 Conduct a basic search based on a provided keyword.
	K-1.DL.4 Use at least one digital tool to create a digital artifact.
	K-1.DL.5 <i>This Standard begins in Grade Band 4–6.</i>
Digital Citizenship	K-1.DL.6 <i>This Standard begins in Grade Band 2–3.</i>
	K-1.DL.7 Identify actions that promote good digital citizenship and those that do not.