New York Computer Science & Digital Fluency

Grades K-1

Impacts of Computing

Society

1 Identify and discuss how tasks are accomplished with and without computing technology. K-1.IC.1

2 Identify and explain classroom and home rules related to computing technologies and digital information. K-1.IC.2

Ethics

3 Identify computing technologies in the classroom, home and community. K-1.IC.3

4 Identify public and private spaces in our daily lives. K-1.IC.4

Accessibility

6 With teacher support, identify different ways people interact with computers and computing devices. K-1.IC.6

Career Paths

7 Identify multiple jobs that use computing technologies. K-1.IC.7

Computational Thinking

Modeling and Simulation

1 Identify and describe one or more patterns (found in nature or designed) and examine the patterns to find similarities and make predictions. K-1.CT.1

Data Analysis and Visualization

2 Identify different kinds of data that can be collected from everyday life. K-1.CT.2

3 Identify ways to visualize data, and collaboratively create a visualization of data. K-1.CT.3

Abstraction and Decomposition

4 Identify a problem or task and discuss ways to break it into multiple smaller steps. K-1.CT.4

5 Recognize that the same task can be described at different levels of detail. K-1.CT.5

Algorithms and Programming

6 Follow an algorithm to complete a task. K-1.CT.6

Identify terms that refer to different concrete values over time. K-1.CT.7

Skip to main content

8 Identify a task consisting of steps that are repeated and recognize which steps are repeated. K-1.CT.8

9 Identify and fix (debug) errors within a simple algorithm. K-1.CT.9

10 Collaboratively create a plan that outlines the steps needed to complete a task. K-1.CT.10

Networks & System Design

Hardware and Software

1 Identify ways people provide input and get output from computing devices. K-1.NSD.1

2 Identify basic hardware components that are found in computing devices. K-1.NSD.2

3 Identify basic hardware and/or software problems. K-1.NSD.3

Networks and the Internet

4 Identify how protocols/rules help people share information over long distances. K-1.NSD.4

5 Identify physical devices that can store information. K-1.NSD.5

Cybersecurity

Risks

1 Identify reasons for keeping information private. K-1.CY.1

Safeguards

2 Identify why it is important to keep your account secure. K-1.CY.2

4 Decode a word or short message using a simple code. K-1.CY.4

Response

5 Identify when it is appropriate to open and/or click on links or files. K-1.CY.5

Digital Literacy

Digital Use

1 Identify and explore the keys on a keyboard. K-1.DL.1

2 Communicate and work with others using digital tools. K-1.DL.2

3 Conduct a basic search based on a provided keyword. K-1.DL.3

4 Use a least one digital tool to create a digital artifact. K-1.DL.4

Digital Citizenship

7 Identify actions that promote good digital citizenship, and those that do not. K-1.DL.7