

# Level 1A: Lower Elementary (Grades K-2)

## Computing Systems

- 1** Select and operate appropriate software to perform a variety of tasks, and recognize that users have different needs and preferences for the technology they use. [1A-CS-01](#)
- 2** Use appropriate terminology in identifying and describing the function of common physical components of computing systems (hardware). [1A-CS-02](#)
- 3** Describe basic hardware and software problems using accurate terminology. [1A-CS-03](#)

## Networks & the Internet

- 4** Explain what passwords are and why we use them, and use strong passwords to protect devices and information from unauthorized access. [1A-NI-04](#)

## Data & Analysis

- 5** Store, copy, search, retrieve, modify, and delete information using a computing device and define the information stored as data. [1A-DA-05](#)
- 6** Collect and present the same data in various visual formats. [1A-DA-06](#)
- 7** Identify and describe patterns in data visualizations, such as charts or graphs, to make predictions. [1A-DA-07](#)

## Algorithms & Programming

- 8** Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks. [1A-AP-08](#)
- 9** Model the way programs store and manipulate data by using numbers or other symbols to represent information. [1A-AP-09](#)
- 10** Develop programs with sequences and simple loops, to express ideas or address a problem. [1A-AP-10](#)
- 11** Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions [1A-AP-11](#)
- 12** Develop plans that describe a program's sequence of events, goals, and expected outcomes. [1A-AP-13](#)

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**13** Give attribution when using the ideas and creations of others while developing programs. 1A-AP-14

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**14** Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops. 1A-AP-14

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**15** Using correct terminology, describe steps taken and choices made during the iterative process of program development. 1A-AP-15

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## Impacts of Computing

**16** Compare how people live and work before and after the implementation or adoption of new computing technology. 1A-IC-16

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**17** Work respectfully and responsibly with others online. 1A-IC-17

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**18** Keep login information private, and log off of devices appropriately. 1A-IC-18

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