

Grade 4

Foundational Concepts 4.FC

- 1 Demonstrate an appropriate level of proficiency in performing tasks using a range of digital devices. 4.FC.1
- 2 Use age-appropriate online tools and resources (e.g., learning management systems, grade and assignment record, tutorial, assessment, web browser). 4.FC.2
- 3 Create a simple digital model of a system and explain what the model shows and does not show. 4.FC.3

Algorithmic Thinking 4.AT

- 1 Examine logical reasoning to predict outcomes of an algorithm. 4.AT.1
- 2 Use flowcharts to create a plan or algorithm. 4.AT.2
- 3 Construct a basic system of numbers, letters, or symbols to represent information as a cipher. 4.AT.3

Data Analysis 4.DA

- 1 Collect, organize, analyze, and interpret data to identify solutions and/or make informed decisions. 4.DA.1
- 2 Gather data to answer a question using a variety of computing and data visualization methods. 4.DA.2

Networking and the Internet 4.NI

- 1 Identify appropriate and inappropriate uses of communication technology and discuss the permanence of actions in the digital world. 4.NI.1
- 2 Conduct advanced keyword searches to produce valid, appropriate results and evaluate results for accuracy, relevance, and appropriateness. 4.NI.2

Programming Concepts 4.PC

- 1 Test and debug a given program in a block-based visual programming environment using arithmetic operators, conditionals, and repetition in programs, in collaboration with others. 4.PC.1

Impacts of Computing 4.IC

- 1 Identify laws and tools which help ensure that users of varying abilities can access electronic and information technology. 4.IC.1
- 2 Explain how hardware and applications can enable everyone, including people with disabilities, to do things they could not do otherwise. 4.IC.2