

# Grade 5

## Foundational Concepts 5.FC

- 1 Use advanced features of digital tools and media-rich resources to communicate key ideas and details in a way that informs, persuades, and/or entertains. 5.FC.1

## Algorithmic Thinking 5.AT

- 1 Analyze and improve an algorithm that includes sequencing and simple patterns with or without a computing device. 5.AT.1
- 2 Create an algorithm to solve a problem while detecting and debugging logical errors within the algorithm. 5.AT.2
- 3 Develop and recommend solutions to a given problem and explain the process to an audience. 5.AT.3

## Data Analysis 5.DA

- 1 Manipulate data to answer a question using a variety of computing methods and tools to collect, organize, graph, analyze, and publish the resulting information. 5.DA.1
- 2 Connect data from a simulation to real-life events. 5.DA.2

## Networking and the Internet 5.NI

- 1 Explain responsible uses of technology and digital information; describe possible consequences of inappropriate use such as copyright infringement and piracy. 5.NI.1
- 2 Apply copyright principles to real life scenarios. 5.NI.2

## Programming Concepts 5.PC

- 1 Create simple animated stories or solve pre-existing problems using a precise sequence of instructions and simple loops, collaboratively or individually. 5.PC.1
- 2 Identify bugs (errors) in basic programming. 5.PC.2

## Impacts of Computing 5.IC

- 1 Analyze the impact of social media on individuals, families, and society. 5.IC.1