Lesson 1: Who Are Computer Programmers?
- Describe and illustrate the career of computer programming

Lesson 2: What Is a Code?
- Explain the role of software in computer functioning and write a set of directions or “software”

Lesson 3: Coding with Legos
- Construct and read a code made of Lego bricks

Lesson 4: Who Wrote the First Computer Program?
- Describe and illustrate Ada Lovelace’s contributions to the field of computer science

Lesson 5: Catch the Bugs!
- Revise codes made of Legos to generate the provided illustration

Lesson 6: Program a Music Video
- Write and run a program for a music video

Lesson 7: Program the Game Flappy Bird
- Write and run a program for the Flappy Bird game

Lesson 8: Who Was Grace Hopper?
- Identify and illustrate Grace Hopper’s contributions to the field of computer science

Lesson 9: Exploring Careers that Use Computer Programming
- Identify careers in technology and describe personal connections to coding experiences

Standards
Common Core Standards
- ELA-Literacy.RI.3.2: Determine the main idea of a text; recount the key details and explain how they support the main idea
- ELA-Literacy.RI.3.3: Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect

CSTA Standards
- 1B-AP-10: Create programs that include sequences, events, loops, and conditionals
- 1B-AP-15: Test and debug (identify and fix errors) in a program or algorithm to ensure it runs as intended
- 1B-AP-17: Describe choices made during program development using code comments, presentations, and demonstrations

C3 Social Studies Standards
- D2.His.2.3-5: Compare life in specific historical time periods to life today

ITEEA Standards
- 17 Benchmark G: Letters, characters, icons, and signs are symbols that represent ideas, quantities, elements, and operations

PA Standards
- Social Studies 6.5.3.B: Identify different occupations
- Social Studies 8.3.3.A: Identify and describe the social, political, cultural, and economic contributions of individuals and groups in US history
- Social Studies 13.1.3.H: Explain how workers in their careers use what is learned in the classroom