

Instructional Model:

Teacher Led

Engaged Learning

Project Based Lessons

Course Category:

Programming

Minimum Grade Level:

5th Grade

Prerequisites:

**Programming 101 or
comparable experience**

Programming Language:

JavaScript

HTML

CSS

Software used in Course:

Brackets

Google Chrome

Repl.it

Technology Options:

Mac

Windows

Chromebook

COURSE DESCRIPTION

Students use Javascript, HTML, and CSS to gain familiarity with web-page structure and front-end web design best practices. Educators lead discussions that explore various STEM careers and project-based activities that encourage students' interests in web development.

STANDARDS COMPLIANCE

- 100% national and state computer science standards alignment - standards map provided
- Reinforces Math, ELA, and Social-Emotional Learning competencies

STUDENT OUTCOMES

Each lesson plan is designed to achieve specific student outcomes related to computer science competencies.

Sample outcomes for this course include:

- Utilize the hierarchy of HTML to learn the basics of web page content.
- Identify and explain how to deal with suspicious websites through discussions with classmates.
- Understand variables and data types when designing websites.
- Utilize the basics of JavaScript to build interactive web page content.
- Apply software planning concepts.
- Understand the role and career of a web designer through discussions with their classmates.



RESOURCES INCLUDED

- Teacher Training videos
- Summative Assessments
- Formative Assessments
- Syllabus
- Computer science standards compliance mapping
- Full year of step-by-step lesson plans
- Pacing guide
- Vocabulary words and definitions
- Coding activities
- Unplugged activities
- Digital citizenship activities
- Hardware activities (Optional)

PILLARS OF ENGAGEMENT



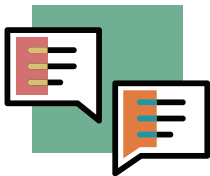
CODING *visual*

Codelicious engages visual learners with computer-based projects, vocabulary activities, as well as written and visual imagery, while building foundational and advanced computer science skills.



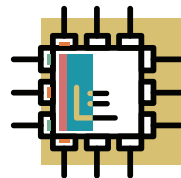
UNPLUGGED *kinesthetic*

Designed to be conducted off-line with creative activities or movement, Codelicious leverages unplugged activities to reinforce computer science concepts.



DIGITAL CITIZENSHIP *auditory*

With discussions, collaboration sessions, and student presentations, Codelicious provides computer science curriculum that enables the auditory learner to thrive.



HARDWARE *tactile*

Hands-on learning with Codelicious curriculum builds upon computer science principles through hardware projects, problem solving activities involving everyday materials, and real-world applications.