



CodeHS

AP Java ISTE Standards Alignment Overview

The CodeHS AP Java curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. This document is an overview of how the AP Java course aligns with the International Society for Technology Education (ISTE) Standards.

CSTA K-12 Computer Science Standards Concepts

Empowered Learner

Empowered learning is a core focus in the AP Java course as students engage in a multitude of learning goals and outcomes. Students with a diversity of project types that empower students to take control of their learning clear learning objectives and goals heading into the cumulative end of year AP exam.

- Standards: 1a, 1b, 1c, 1d

Knowledge Constructor

Students use various libraries, languages, and tools to create programs and applications. They use the Internet to curate a variety of resources for learning. Students consider how their programs could be applied to different applications and uses.

- Standards: 3c, 3d

Innovative Designer

Students engage in design thinking practices to use a variety of technologies and libraries to share their ideas in a meaningful way. The course encourages creative thinking and problem solving to create meaningful solutions. Students focus on the cyclical process of developing, testing, and refining prototypes.

- Standards: 4a, 4b, 4c, 4d

Computational Thinker

Students use data structures, variables, control flow, and other topics in computer science to solve problems in creative and unique ways. By relying on strategic program design, students

break down complex problems into manageable components and incorporate data analysis into their program design.

- Standards: 5a, 5b, 5c, 5d

Creative Communicator

Students engage in a variety of problems and critical thinking exercises to solve and design creative solutions. Students engage in topics and build a number of projects that express these concepts in a creative and innovative manner.

- Standards: 6a, 6b, 6c, 6d

Global Collaborator

The AP Java course utilizes a number of libraries and digital media tools and encourages collaborative processes to design solutions and employ critical thinking. Students publish original programs and designs with their peers and CodeHS community.

- Standards: 7a, 7b