



CodeHS

Web Design (Picasso) ISTE Standards Alignment Overview

The Web Design course is a first computer science course introducing the basics of designing a web page, how information and images are rendered on the Web, and designing user interfaces. This document is an overview of how the Web Design 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 Web Design course as students engage in active choosing of their projects and learning goals. Students engage in project-based learning and demonstrate their learning goals by designing and creating unique and personalized websites.

- Standards: 1a, 1c, 1d

Digital Citizen

Computing has had significant impacts in many fields and in students' personal lives. In this course, students learn about the positive and negative impacts the computing and the Internet has had and learn to recognize the rights and responsibilities of living, learning, and working in an interconnected digital world. Students learn about privacy and ways to manage their personal information on an interconnected platform and learn about the right and obligations of using and sharing intellectual and digital property.

- Standards: 2a, 2b, 2c, 2d

Knowledge Constructor

Students learn about effective research and search strategies to complete informational websites and use the Internet to curate a variety of resources using digital tools. Students learn about evaluating the accuracy and credibility of various resources.

- Standards: 3a, 3b, 3c

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 Web Design has a focus on design principles and uses a cyclical design process to solve problems.

- Standards: 4b, 4c

Computational Thinker

Complex websites are designed as systems of interacting or nested modules, each with a specific role, coordinating for a common overall purpose. These modules can be combinations of data (images, text, etc.) which allow for better management of complex sites. Students use algorithmic and logical thinking to develop their complex websites.

- Standards: 5a, 5d

Creative Communicator

In Web Design, students creatively and clearly express their ideas and problems through a variety of media, technologies, tools, styles, and formats. Students use digital media to create original works and to detail their learning objectives and outcomes.

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

Global Collaborator

The Web Design course utilizes a variety of digital tools, technologies, and mediums to allow students to engage their audiences and broaden their own learning. Students consider various audiences in order to think locally and globally when designing their websites and look to use media from a variety of cultures and groups to express multiple viewpoints.

- Standards: 7a, 7b