

Teaching Elementary CS

CodeHS Professional Development Online Course

Details

Course delivery method: Self-Paced Online Delivery

Contact hours: 5 approximate hours

Prerequisite(s): Some experience navigating the CodeHS LMS will be helpful

Introduction

In this course, teachers will learn the fundamentals of teaching Computer Science at the elementary level (K-5). Throughout this course, teachers will learn and practice strategies to best optimize teaching with the Elementary CodeHS curriculum. Teachers will explore interdisciplinary integration, exposure to physical computing, differentiation, and assessment strategies.

Course Outcomes

Educators will understand:

- How to navigate CodeHS Elementary to find appropriate lessons
- Learn how to manage students and access resources
- Learn how to use ScratchJr and Scratch
- Have a basic understanding of Physical Computing
- Gain knowledge in Differentiation Strategies and Use Modify Create (UMC)
- Basics of assessment and lesson mapping

More Information

Browse the content of this course at <https://codehs.com/course/18349/explore>.

Course Criteria for Completion

Once participants have successfully completed all activities in the course, a Certificate of Completion will be available.

Course Breakdown (5 Hours)

Unit 1: Welcome to Teaching Elementary CS (20 minutes)	
Topics Covered	<ul style="list-style-type: none"> ● Introduction ● Course Outline ● How to Get Help
Unit 2: Programming Software (1 hour + 50 minutes)	
Topics Covered	<ul style="list-style-type: none"> ● Overview of ScratchJr & Scratch ● Walkthrough of ScratchJr & Scratch Editors ● Sharing Options ● Introduction to Physical Computing
Unit 3: Elementary CS Pedagogy (45 minutes)	
Topics Covered	<ul style="list-style-type: none"> ● Computational Thinking ● Differentiation Strategies ● Scaffolding Practices ● Debugging Approaches ● Use Modify Create (UMC) ● Sample Implementations
Unit 4: Navigating CodeHS Elementary (1 hour + 15 minutes)	
Topics Covered	<ul style="list-style-type: none"> ● Why Elementary CS? ● Navigating CodeHS Elementary ● Understanding Elementary Lessons ● Courses & Sections ● Accessing Resources ● Overview of CodeHS Elementary Lessons
Unit 5: Now What?! (15 minutes)	
Topics Covered	<ul style="list-style-type: none"> ● Assessment Strategies & Samples ● Course Wrap Up ● Certificate of Completion

Communication & Support

The instructor(s) will communicate with participants as needed for individual questions and feedback.

Getting Help with Activities

Course participants can use the Conversation tab in the code editor to ask questions about any of the activities in the course. Course instructor(s) will respond to questions and provide feedback in this area as well.

You can find more information about getting help with your coursework [HERE](#).

