

Elementary CS Instructional Strategies

CodeHS Professional Development Online Course

Details

Course delivery method: Self-Paced Online Delivery

Contact hours: 3-5 approximate hours

Prerequisite(s): No prior experience - recommended for beginning users of CodeHS

Course Description

In this course, teachers will explore instructional strategies for engaging elementary students in computer science. Teachers will learn how to scaffold and differentiate CS content, foster collaboration in elementary classrooms, implement culturally relevant pedagogy, integrate interdisciplinary lessons, use physical computing, and facilitate open-ended projects.

Course Outcomes

Educators will understand:

- What differentiation can look like in an elementary CS classroom
- How collaboration can be used for inclusive CS instruction
- Why culturally responsive pedagogy & UDL is important to build inclusivity
- How to create interdisciplinary CS lessons to maximize instruction time

More Information

Browse the content of this course at <https://codehs.com/course/22153/explore>.

Course Breakdown (3-5 Hours)

Unit 1: Elementary CS Instructional Strategies - Getting Started (15 min)	
Topics Covered	• Welcome to Elementary CS Instructional Strategies • Course syllabus and outline • Getting help in your online course
Unit 2: Collaboration Strategies (45 min)	
Topics Covered	• What is collaboration? • Collaborative problem-solving • Creating collaborative activities assignment
Unit 3: Differentiation Strategies (45 min)	
Topics Covered	• Differentiation in elementary computer science • Differentiation in Computer Science • Creating differentiated activities assignment
Unit 4: The Inclusive CS Classroom (1 hour)	
Topics Covered	• What is inclusivity in computer science? • Culturally Response Strategies for Computer Science • What is UDL? • Make your own framework assignment
Unit 5: Interdisciplinary Computer Science (30 min)	
Topics Covered	• Guide for interdisciplinary teaching • Strategies to make CS interdisciplinary • Building an interdisciplinary lesson plan assignment
Unit 8: How CodeHS Works Course Wrap-Up (15 min)	
Topics Covered	• How CodeHS Works Completion Badge • How CodeHS Works Course Certificate • Connect with the CodeHS Educator Community

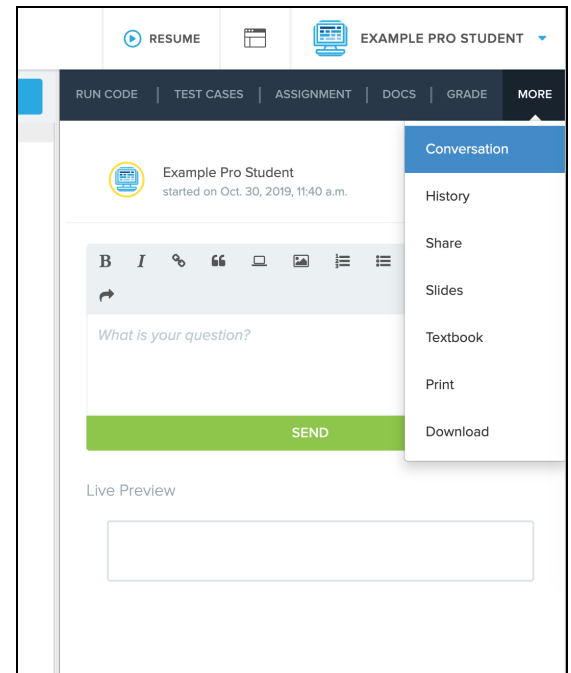
Communication & Support

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

Getting Help with Activities

Course students 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](#).



Course Criteria for Completion

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