

Instructional Strategies for MS/HS

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 short course, teachers will be introduced to a number of impactful instructional strategies for middle or high school computer science classrooms. Teachers will explore topics including collaboration and effective debugging strategies.

Course Outcomes

Educators will understand:

- A variety of instructional strategies for computer science classrooms
- The importance of collaboration in computer science and strategies to implement collaboration in CS classrooms
- The basics of debugging, and how to use debugging in the CS classroom
- A variety of strategies to build student investment in CS

More Information

Browse the content of this course at <https://codehs.com/course/22152/explore>.

Course Breakdown (3-5 Hours)

Unit 1: Welcome to CS Instructional Strategies for MS/HS	
Topics Covered	• Course Syllabus • Getting Help in your Online Course • CodeHS Knowledge Base • Connect with the CodeHS Educator Community
Unit 2: Collaboration in Computer Science	
Topics Covered	• Why Collaboration in CS? • Fostering a Collaborative Environment • Collaboration Strategies • Challenges to Collaborative Learning
Unit 3: Teaching Effective Debugging Strategies	
Topics Covered	• Intro to Debugging • Debugging Basics • Debugging with Pseudocode and Diagrams • Debugging with Error Messages • Asking the Right Questions
Unit 4: Increasing Student Investment in Computer Science	
Topics Covered	• Personalizing Learning • Student Ownership • Making Connections
Unit 6: Instructional Strategies for MS/HS Course Wrap-Up	
Topics Covered	• How CodeHS Works Completion Badge • How CodeHS Works Course Certificate • Connect with the CodeHS Educator Community

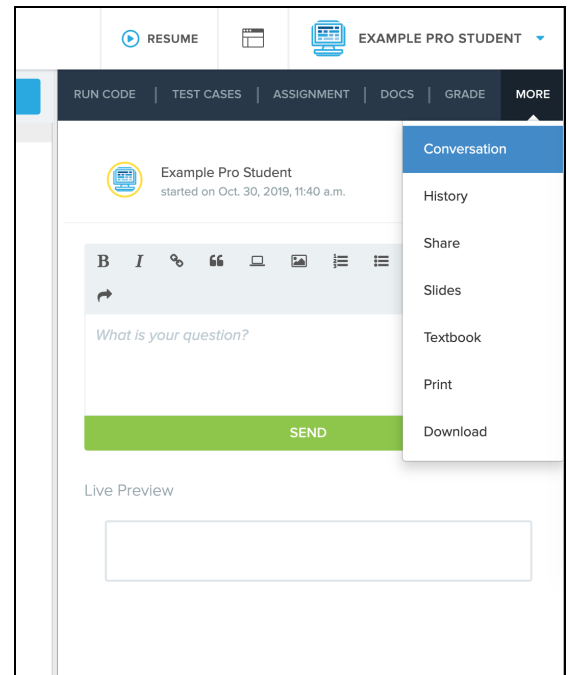
Communication & Support

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.