Preparing for and Teaching Kira's Middle School Course





Housekeeping Items







Webinar is recorded

Slides available along with the recording

Enter your questions in the Q&A box

Watching On Demand, and have questions?



tn@kira-learning.com for platform/course

ashe@battelle.org for anything else

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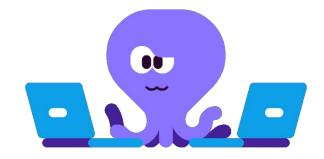


December 12, 4 PM CT

Preparing for and teaching the Kira Learning High School Course

Webinar Goals

- What is the Middle School CS course?
 - Curriculum Guide / Learning Targets / TN Standards
- How does the course engage students?
 - Short videos
 - Interactive programs
 - Interesting examples
- Course demo
 - Introduction to Programming Using Platypus
 - Data Representation
 - The Internet and the Impact of Computing

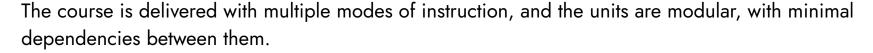


The Kira middle school course is a 3-Unit, 25-30 hour course (e.g., a six-week course with 50 minute periods)

Learning Targets:

By the end of this course, students will understand:

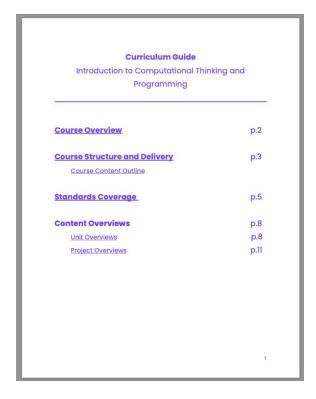
- Fundamentals of algorithmic and computational thinking
- Button-based coding in the Python Programming language
- Data representation, collection and analysis
- Networks and Internet Basics
- Ethical considerations of computing and responsible digital behavior



Every lesson and unit concludes with an assessment, and every unit also has a student project.



There is a comprehensive Curriculum Guide: https://tinyurl.com/middle-school-curric





The middle school course covers all of the <u>Tennessee Middle School Computer</u> Science Standards.

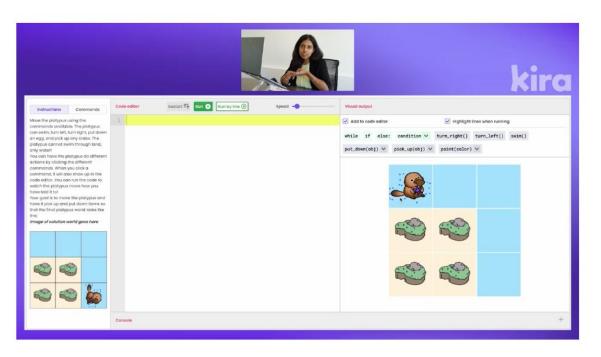
Example of TN Standards from the Curriculum Guide:

MS.PC: Programming Concepts	
Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs.	Unit 1
Create procedures with parameters that hide the complexity of a task and can be reused to solve similar tasks.	Unit 1
Seek and incorporate feedback from team members and users to refine a solution that meets user needs.	Mini Project 1
Provide proper attribution when incorporating existing code, media, and libraries into original programs.	Unit 1



The middle school course provides interesting and engaging curriculum

Short videos with a focus on demonstration



How does the course engage students?

The middle school course provides interesting and engaging curriculum

Interactive, graphical programs with a unique programming interface



The middle school course provides interesting and engaging curriculum

Interesting Examples

How does a message get from your computer to your friend's computer across the country?



Course Demo

- Introduction to Programming Using Platypus (Unit 1)
- Data Representation (Unit 2)
- The Internet and the Impact of Computing (Unit 3)

Final Thoughts

- The course has been designed to target middle school students
 - Middle schoolers get engaged by doing, which is what this course is all about
- We want your feedback! If you decide to teach the course, we welcome all feedback, and we promise to take all suggestions seriously

Visit www.kira-learning.com or www.computersciencetn.org



For questions about the Kira platform or courses:

tn@kira-learning.com

For all other questions:

ashe@battelle.org