

“Extending the CTE-STEM Pipeline into Middle Schools”

Design for Change with P5.js

Solutionary Phase	Solutions
Lesson # and title	Lesson 9: Complete Final Project Work
Duration	45 minutes
Purpose	Students create a priorities checklist for completing their final projects.
Outcome	Students incorporate feedback into their final project designs and continue working on their projects.

Lesson Overview

In this lesson, students build on previous lessons by continuing to work on their final design projects. Students share what they’ve completed in their project and receive feedback from a partner on the status. They also receive suggestions for completing the project. Students spend the majority of the class time completing their final projects.

Learning Objectives

- Reflect on the previous lesson’s assignment to work on the final project design and receive feedback in a think-pair-share.
- Work on the final project design.

Content Standard(s)

CA NGSS, EP&Cs, CCSS-ELA, CCSS-Math, EP&Cs, History/Social Studies, Visual and Performing Arts, Computer Science, Health, CTE, PE
Insert the standards’ codes and language verbatim

CS Standards:

2-AP-12. Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.

2-AP-15. Seek and incorporate feedback from team members and users to refine a solution that meets user needs.

2-AP-16. Incorporate existing code, media, and libraries into original programs, and give attribution.

College and Career Connection(s)

This lesson allows students to create a campaign for change and to learn about the role that programmers play in designing and creating programs to impact society.

Equipment, Instructional Resources, and Materials

- Computer with projector (teacher)
- Access to digital curriculum resources (teacher)
- Computers (one per student)
- Internet access

Suggested Student Grouping

The final project can be completed with students working independently, in pairs, or in teams of 3. If working in teams, make sure roles are defined for completing tasks.

Vocabulary

The Lesson

Preparation

For this lesson, teachers should review the lesson slide show and watch videos included with Lesson 9 which cover the lesson topics. Teachers should be prepared to provide feedback and offer support to students for completing their projects. Teachers should have a computer with an internet connection and a device for projecting the computer screen for students to see.

Lesson Procedure

Link to Lesson Slide Deck: [Lesson 9 Slide Deck](#)

Activity/Task	Description	Time (min)
Exploration: Share Your Final Project Status	Students share the status of their Final Design Project (think-pair-share). Students receive feedback and suggestions for completing their projects.	10-15 min
Challenge: Priorities Checklist end of Day 9	Students complete an End of Day 9 Priorities Checklist.	5-10 min
Challenge: Continue Working on Final Projects	Students complete their final projects.	20-30 min

Assessment

Please insert the relevant assessment, including if this is done synchronously, asynchronously or as a homework assignment.

- Students turn in a Google Slide with a [Priorities Checklist for the end of Day 9](#).

