

# Unit 7: Create Professional Development

Content Area: **Computer Science**  
Course(s):  
Time Period: **Marking Period 4**  
Length: **20-25 days**  
Status: **Published**

## Brief Summary of Unit

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The student internship is designed to assist in making sure the website is up to date and as relevant as possible. There are many different people who are involved with its updating, including administration, school webmasters, and teachers. One of the things our internship will offer to each of those groups is a chance for Professional Development. Our student interns will develop in person and online training for individuals and groups who will be using the CMS in order to adjust the district's website. Teacher Webpages, Online Data Storage, Forms, and many other tools are available to staff as long as they know how to create them. The student interns will be able to assist with this process.

Revision Date: August 2020

CS.9-12.8.1.12.AP.7	Collaboratively design and develop programs and artifacts for broad audiences by incorporating feedback from users.
CS.9-12.8.1.12.AP.8	Evaluate and refine computational artifacts to make them more usable and accessible.
CS.9-12.8.1.12.DA.1	Create interactive data visualizations using software tools to help others better understand real world phenomena, including climate change.
CS.9-12.8.2.12.ED.2	Create scaled engineering drawings for a new product or system and make modification to increase optimization based on feedback.
CS.9-12.8.2.12.ED.4	Design a product or system that addresses a global problem and document decisions made based on research, constraints, trade-offs, and aesthetic and ethical considerations and share this information with an appropriate audience.
WRK.K-12.P.8	Use technology to enhance productivity increase collaboration and communicate effectively.
WRK.K-12.P.9	Work productively in teams while using cultural/global competence.
CAEP.9.2.12.C.2	Modify Personalized Student Learning Plans to support declared career goals.
CAEP.9.2.12.C.3	Identify transferable career skills and design alternate career plans.
TECH.8.1.12.A.CS2	Select and use applications effectively and productively.
TECH.8.1.12.B.CS2	Create original works as a means of personal or group expression.
TECH.8.1.12.C	Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.
TECH.8.1.12.C.1	Develop an innovative solution to a real world problem or issue in collaboration with peers and experts, and present ideas for feedback through social media or in an online community.
TECH.8.1.12.F.CS2	Plan and manage activities to develop a solution or complete a project.

## Essential Questions / Enduring Understandings

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## Essential Questions:

- How do you identify a need for professional development?
- How detailed would a presentation need to be in order for it to be shared and not live?

## Enduring Understanding

- One of the best ways to learn something is to teach it to others. When you are teaching people who are not as skilled in technology, you will find some things that seem obvious to you may not be to others.

## Objectives

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### Students Will Know:

- how to prepare presentations that will be held in person, virtually, live or prerecorded.
- how to prepare meaningful and effective professional development.

### Students Will be Skilled At:

- presenting material that they have reviewed and understand thoroughly.
- speaking to small groups of professionals.

## Learning Plan

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- Polling staff, administrators and webmasters to determine need for professional development.
- Taking feedback and putting together presentations for those topics.
- Prepare to present on PD Days or add to a digital library of helpful presentations created by the team.

## Assessment

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### Assessments

- Formative: Daily assessments using examples from class notes and CodeHS.com, AP Classroom/Albert Checks for Understanding
- Summative: Teacher-created assessments/projects and CodeHS Computer Science Projects, AP Classroom/Albert Unit Assessments
- Benchmark: Check for understanding benchmark assessments on CodeHS, AP Classroom/Albert/Khan Academy Diagnostics

- Alternative Assessments: Student-centered activities such as a doorbell coding project, game design projects, and other activities involving real world applications

Finalized products of the professional development training sessions.

## **Materials**

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Core instructional materials: [Core Book List](#)

Supplemental materials: CodeHS

Google Slides or other presentation software.

Google Meet or other online communication tools.