AP CSP - Final Project

Choose your own learning experience

Goal of the project: Try something new and compare it to what you have learned in this course.

Maybe try using a different programming language and compare it to javascript?

Maybe try a different flavor of javascript?

Maybe try enhancing a program with a web-based database that can be updated with your code?

Options:

1. Remix one of your code.org projects to include database features

2. Complete 2 different "Hour of Code" offerings and compare/contrast them to Javascript (must be non-javascript offerings)

3. Try creating a Google script using Sheets, Calendar (ex. create calendar entries from google sheets,)

Complete the Code.org data lessons

"After the Exam" lessons in code.org extend your programs to use a cloud-based database so that you can store/save data that you enter in your program.

Need to complete all lessons and a final program.

Try EarSketch (web-based programming music)

Can use Javascript or Python programming language

Has an "Hour of Code" option for a quick-start

Try Google script using Sheets, Docs, Calendar

(create calendar A/B from google sheets?)

Grading

1. Project description / plan / timeline   (due Tuesday 5/18)
2. Progress checkpoint #1 (due Friday 5/18)
3. Progress checkpoint #2 (due Friday 5/25)
4. Progress checkpoint #3, Final project code (due Friday 6/1)
5. Presentation

5/16-17	Work on Final Project
5/18	First progress Report
5/21-24	Work on Final Project
5/25	Second progress Report
5/28-31	Work on Final Project
6/1	Third Progress Report
6/5	Due date Final Class Presentation

Project description/plan/timeline (due Tuesday 5/18)

Must include purpose of the project, list of tasks to be completed, timeline for tasklist, resources needed to complete the project.

	20	16-19	13-15	10-12	0-9
Creativity	Demonstrates a high level of curiosity and offers a unique perspective on topic.	Demonstrates a solid level of curiosity and offers a unique perspective on the topic.	Demonstrates some curiosity and offers a different perspective on topic.	Demonstrates marginal curiosity and offers a similar perspective on topic.	
Organization	Created a well-developed action plan. Independently able to figure out what needed to be done and in what order.	Created a well-developed action plan. Able to figure out what needed to be done and in what order with some help.	Created action plan. Able to figure out what needed to be done and in what order with a lot of help.	Had help creating action plan. Figured out what needed to be done and in what order with a lot of help.	
Grit / Hustle	Demonstrated ability to overcome obstacles and distractions. Never let setbacks get in the way of creating project plan.	Demonstrated ability to overcome most obstacles and distractions. Rarely let setbacks get in way of creating project plan.	Demonstrated ability to overcome some obstacles and distractions. Sometimes let setbacks get in way of creating project plan.	Had difficulty overcoming most obstacles and distractions. Allowed setbacks to get in way of creating project plan.	

Progress checkpoint #1 (due Monday 5/18)

Must include list of tasks completed so far. Identify positives and difficulties encountered. Reflect on potential for completing project on time.

	20	16-19	13-15	10-12	0-9
Productivity	Showed a very strong and efficient use of time and resources.	Showed efficient use of time and resources.	Not always prepared and wasted time.	Rarely prepared and consistently wasted time.	
Organization	Kept to project plan and met deadlines by completing all tasks due up to this point. Documented progress clearly and with reflection.	Kept to project plan and met deadlines by completing all tasks due up to this point. Documented progress with minimal details.	Kept to project plan and met most deadlines due up to this point. Documented progress with reasonable explanation for missed deadlines.	Rushed to meet deadlines and/or missed many due up to this point. Little documented progress.	
Grit / Hustle	Demonstrated ability to overcome obstacles and distractions. Never let setbacks get in the way of creating project plan.	Demonstrated ability to overcome most obstacles and distractions. Rarely let setbacks get in way of creating project plan.	Demonstrated ability to overcome some obstacles and distractions. Sometimes let setbacks get in way of creating project plan.	Had difficulty overcoming most obstacles and distractions. Allowed setbacks to get in way of creating project plan.	

Progress checkpoint #2 (due)

Must include list of tasks completed so far. Identify positives and difficulties encountered. **Be specific about what you completed since last checkpoint.**

	20	16-19	13-15	10-12	0-9
Productivity	Showed a very strong and efficient use of time and resources.	Showed efficient use of time and resources.	Not always prepared and wasted time.	Rarely prepared and consistently wasted time.	
Organization	Kept to project plan and met deadlines by completing all tasks due up to this point. Documented progress clearly and with reflection.	Kept to project plan and met deadlines by completing all tasks due up to this point. Documented progress with minimal details.	Kept to project plan and met most deadlines due up to this point. Documented progress with reasonable explanation for missed deadlines.	Rushed to meet deadlines and/or missed many due up to this point. Little documented progress.	
Grit / Hustle	Demonstrated ability to overcome obstacles and distractions. Never let setbacks get in the way of creating project plan.	Demonstrated ability to overcome most obstacles and distractions. Rarely let setbacks get in way of creating project plan.	Demonstrated ability to overcome some obstacles and distractions. Sometimes let setbacks get in way of creating project plan.	Had difficulty overcoming most obstacles and distractions. Allowed setbacks to get in way of creating project plan.	

Progress checkpoint #3, pdf of code (due Friday 6/1)

Coding must be completed by this checkpoint. All that remains is creating your video, answering the final reflection questions and preparing your presentation.

	20	16-19	13-15	10-12	0-9
Productivity	Showed a very strong and efficient use of time and resources.	Showed efficient use of time and resources.	Not always prepared and wasted time.	Rarely prepared and consistently wasted time.	
Organization	Kept to project plan and met deadlines by completing all tasks due up to this point. Documented progress clearly and with reflection.	Kept to project plan and met deadlines by completing all tasks due up to this point. Documented progress with minimal details.	Kept to project plan and met most deadlines due up to this point. Documented progress with reasonable explanation for missed deadlines.	Rushed to meet deadlines and/or missed many due up to this point. Little documented progress.	
Grit / Hustle	Demonstrated ability to overcome obstacles and distractions. Never let setbacks get in the way of creating project plan.	Demonstrated ability to overcome most obstacles and distractions. Rarely let setbacks get in way of creating project plan.	Demonstrated ability to overcome some obstacles and distractions. Sometimes let setbacks get in way of creating project plan.	Had difficulty overcoming most obstacles and distractions. Allowed setbacks to get in way of creating project plan.	

Presentation / Reflection (Final Exam)
(Reflections due 6/1,
Presentations will be done 6/5)

Must submit:

1. One-minute video of your program

2. Specific instructions for me on how to run your program exactly as you did in your video

3. A pdf of your code with a GIANT comment near the section of code that makes you most proud

4. Completed reflection template

Presentation / Reflection (Final Exam)

Your quarterly will be graded using the following rubric:

	20	16-19	13-15	10-12	0-9
Video and instructions	The video demonstrates the running of at least one feature of the program and your instructions clearly explained how to recreate the feature shown in the video.	The video demonstrates the running of at least one feature of the program but the instructions were not clear enough to recreate exactly the feature shown in the video.	The video demonstrates the running of at least one feature of the program but the instructions did not recreate the video's feature.	The video demonstrates the running of at least one feature of the program but there were no instructions or the instructions produced an error in the program execution.	
Reflection Components	Response includes all components and meets or exceeds all requirements indicated in the instructions. Each question or part of the assignment is addressed thoroughly.	Response includes all components and meets all requirements indicated in the instructions. Each question or part of the assignment is addressed.	Response is missing some components and/or does not fully meet the requirements indicated in the instructions. Some questions or parts of the assignment are not addressed.	Response excludes essential components and/or does not address the requirements indicated in the instructions. Many parts of the assignment are addressed minimally, inadequately, or not at all.	
Reflection Connections	The reflection articulates multiple connections between this learning experience and content from the rest of the course, and includes future goals.	The reflection articulates connections between this learning experience and content from the rest of the course and/or future goals.	The reflection attempts to articulate connections between this learning experience and content from the rest of the course, but the connection is vague.	The reflection attempts to articulate a minimal connection to other learning but connection is unclear.	
Presentation	Showed strong passion and sense of purpose. Conveyed both successes and failures to entire class including what s/he learned.	Showed passion and sense of purpose. Conveyed both successes and failures to class.	Showed sense of purpose. Conveyed both successes and failures to class.	Purpose was unclear. Failed to convey successes and failures to class.	