AP Comp Sci Principles (don't log in yet!)

Mr. Trahan

Agenda

Welcome!

Introduction activities

Syllabus

AUG

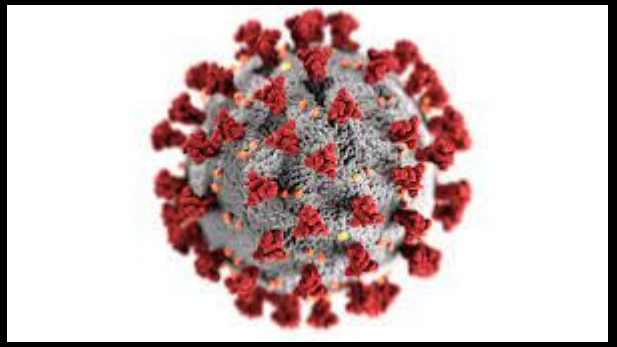
COVID Protocols

Masks

Distance?

PPE --Wipes

...Outside "Mask Breaks"...



I'm Mr. Trahan

...Here are a few things about me...

This is AP Comp Sci P

...The parts of CS that aren't just programming

...a Survey of CS Topics

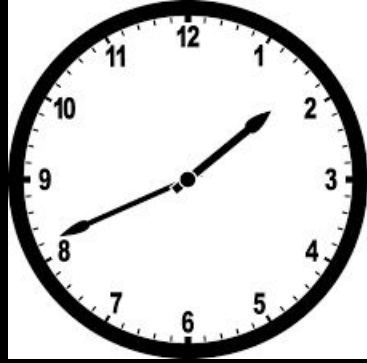
...Mobile CSP. Android Devices.

Performance Task + AP Exam

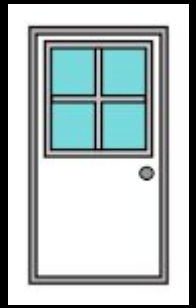
This is Room 83 ...um, 82...

...Here are a few things about the classroom...

Enter/Exit



- Start of class:
  - Be here on time. If you are late, check in with me!
- End of class:
  - Everyone in their seats and quiet
  - It's my opportunity to make announcements



Classroom Stuff...

Bathroom. Take "the token".

One at at time.

...so don't take long!

...a few more...

Homework

- We'll have some ...but it's not bad
  - Reading chapters of "Blown to Bits"
  - Practice Tests
- Any classwork you don't finish is homework!

AP Exam

- AP Exam is the 2nd week of APs
  - Mon 09May22 ...review session in the Spring
  - 70% of your AP score.

...the other 30% is a project you will do in class and submit. More on this later.

AP Computer Science Principles

AP Computer Science Principles introduces students to the *central ideas of computer science*, instilling the ideas and practices of *computational thinking*, and inviting students to understand how computing changes the world.

The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions.

Coursework

- Mobile CSP Curriculum
  - Uses AppInventor (Android App Devel)
    - Provided! Either a phone or tablet
  - Units with projects
- Add'l Reading: "Blown to Bits"
- gCR turn in *and* building a web portfolio
  - I'll provide a starting template.

Android Devices

- ZTE Phone or Lenovo Tablet
- Distributed next week (like textbooks)

Exams

- Unit tests
- Final Exam
  - An AP exam
  - Plenty of practice problem beforehand

Final Project

- Last few weeks of class
- An Android App
- Group work

A special arrangement...

Different waves...

Login...

...because the first time takes a while…

We'll go over a few things in the meantime...

Rules to Work By...

- Always try! Always try! Always try!
- Think about what you know.
- "Ask me a question"
  - Ask good questions

Rules/Behavior

"I don't need a weatherman to tell me which way the wind is blowing"

Respect

It's important.

If we have that, we don't have to have a bunch of rules.

...but we do need to cover a few...

Rules You Know

No cell phones. Put them away.

- Charging: Phone face down, behind compy.
- I see it, I take it. I hear it, I take it.
- If you must use it, ASK!

Rules You Don't Know

- No non-class gaming!
- No youtube surfing!

...I'll ask you to turn off your compy for the day.

- You are responsible for catching up.
- Parents notified.

Rules You Don't Know

Headphones only when we need them!

...online tutorials, so bring some (wired, please!)

- It puts up a big barrier to teamwork/community
- Learning from your peers is allowed!

Rules You Don't Know

- Learning from your peers is allowed!

There's an art to giving/getting help.

Ask for what you need. Give what is asked for.

...in the end, work you submit must be your work!

Ready, Set,... Login!

Google Classroom (gCR): zf3bl5w

Go to the "stream" for the classSHARE link

...Syllabus
...AUG

AUG

Acceptable Usage Guide

...for school technology…networks, compys, …

Essentially: Use it the way it was intended.

- As the technology was intended
- As an education tool in a school setting

gCR!

Assignments made here.

Assignments turned in here.

Assignments graded here (with comments)

...then transferred to Aeries (few comments)

gCR!

Fill out the first assignment, the google form

...if you need help, ask!

Video - Intro AP CSP

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AP CSP - Seven Big Ideas

- Creativity
- Abstraction
- Data and Information
- Algorithms
- Programming
- The Internet
- Global Impact

AP CSP - Computational Thinking Practices

- Connecting computing
- Creating computational artifacts
- Abstracting
- Analyzing problems and artifacts
- Communicating
- Collaborating

AP CSP - Assessment

Three assessments:

Explore Performance Task	16%	Monday, April 30th
Create Performance Task	24%	Monday, April 30th
End-of-course Exam	60%	Friday, May 11th

- Explore Task - identify a computing innovation, explore its impact, and create a related digital artifact (8 hours, classroom time)
- Create Task - creation of a computer program (12 hours, classroom time)
- Exam - 2 hour - 74 multiple-choice questions - single-select and multiple-select questions

Mobile CSP

Video - Intro AP CSP

Trinity College students made an app to Estimate Tree Height

http://notes.bfoss.org/index.php/TreeCalc/Main_Page

Course Timeline

- AP CSP/ Mobile CSP Course - Feb, March, April, mid - May
- Enrichment Projects mid-May to mid-June

Mobile Computer Science Principles

Unit 1 - Getting Started: Preview & Setup

Unit 2 - Intro to Mobile Apps

Unit 3 - Creating Graphics & Images

Unit 4 - Animation, Simulation, & Modeling

- *Create Task (practice)*
- *Explore Task (practice)*

Unit 5 - Algorithms & Procedural Abstraction

Unit 6 - Using and Analyzing Data & Information

Unit 7 - Communication via The Internet

- *Explore Task*
- *Create Task*

Day 1 Setup

Day 1 - Setup

Tools Check:

- Google Classroom and Google Drive (with SDUHSD account)
- Before we start - make sure you are logged into your my.sduhsd.net account!

Step by step assignments...

Google Drive Setup

- Create a Google Folder to be the parent of your ECS work.

Name the folder EXACTLY as follows:

CSP <*user name*>
Example: "CSP smithj6089"

- Share the folder with me - keith.trahan@sduhsd.net
  - Select the folder and hit the share button

Google Drive Setup 2

- Create the following folder structure under your CSP folder:

U1 Intro
U2 Mobile Apps
U3 Graphics
U4 Animation
U5 Algorithms
U6 Data
U7 Internet

Lastly...

Log off

Compys back in starting positions.

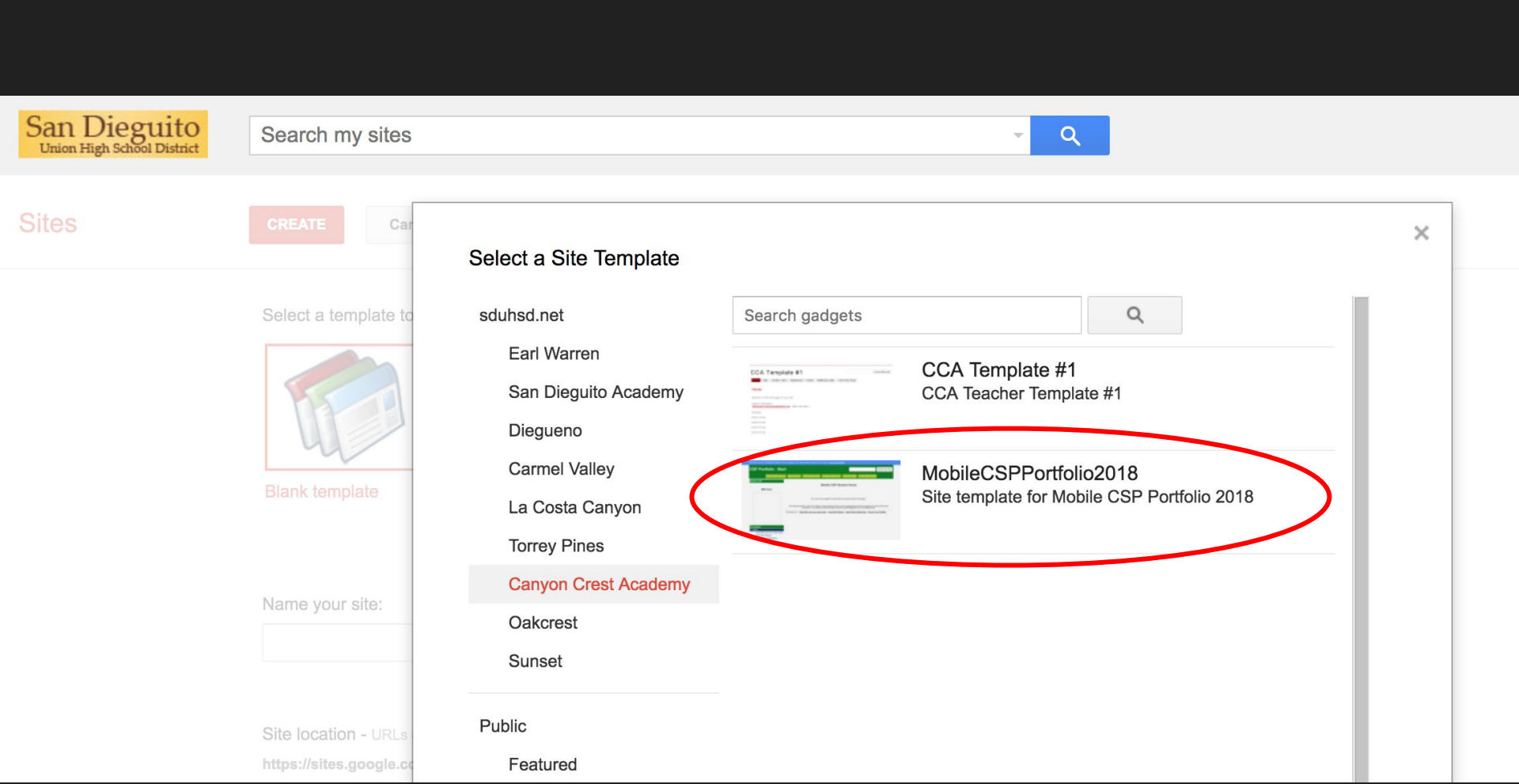
EXTRA SLIDES

Mobile CSP Portfolio

- Create your own Mobile CSP Portfolio from my template:

MobileCSPPortfolio2018

1. Go to sites.google.com
2. Create Site - use ‘in Classic Sites’ option
3. Browse for the ‘MobileCSPPortfolio2018’ template
4. Site Name: Mobile CSP Portfolio
5. Site Location: csp-smithj6089


San Dieguito
Union High School District
Search my sites
Sites
CREATE
Select a template to
Blank template
Name your site:
Site location - URLs
https://sites.google.co
Select a Site Template
sduhsd.net
Earl Warren
San Dieguito Academy
Diegueno
Carmel Valley
La Costa Canyon
Torrey Pines
Canyon Crest Academy
Oakcrest
Sunset
Public
Featured
Search gadgets
CCA Template #1
CCA Teacher Template #1
MobileCSPPortfolio2018
Site template for Mobile CSP Portfolio 2018

San Dieguito Union High School District

Search my sites

Sites

CREATE Cancel

Template:

Select a template to use:

Blank template

MobileCSPPortfolio2018

Browse the gallery for more

Site Name:

Name your site:

Mobile CSP Portfolio

Site Location:

Site location - URLs can only use the following characters: -,A-Z,a-z,0-9

https://sites.google.com/a/sduhsd.net/ csp-smithj6089 Want a custom domain name? Visit Google Domains.

csp-smithj6089

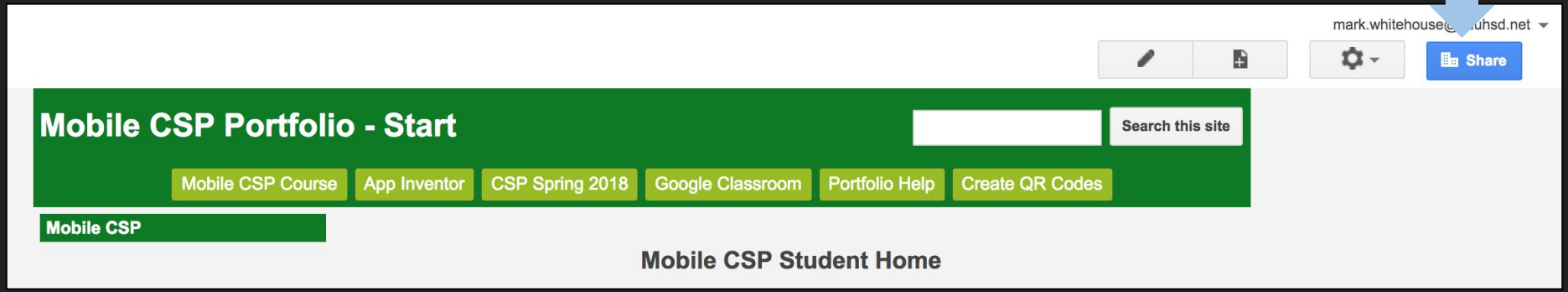
Select a theme

More options

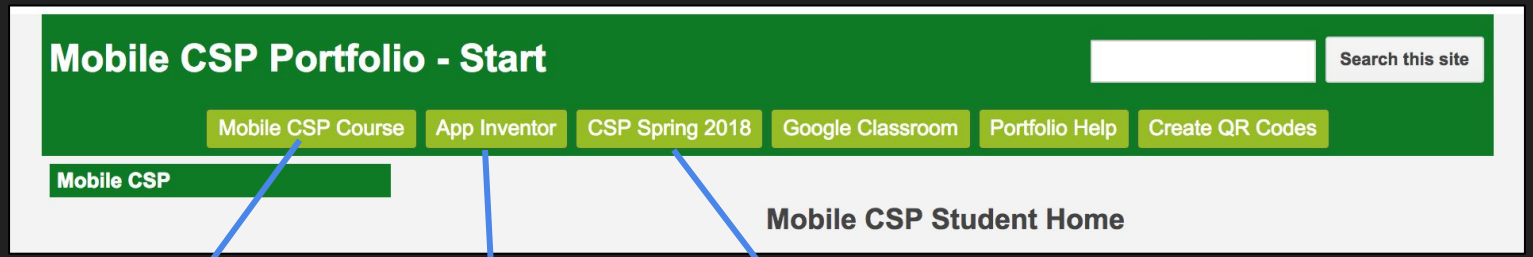
Mobile CSP Portfolio

- Site Name : ‘Mobile CSP Portfolio’
- Site Location

  https://sites.google.com/a/sduhsd.net/csp-smithj6089
- Test the site by visiting the URL above
- Share the site with me, and add me as a editor



Mobile CSP Portfolio - Links



Mobile CSP Course

App Inventor

Class Website

First Task - Customize Your Portfolio

- Add your photo at the top left
- Create top level ‘Journals’ and ‘Assignments’ Pages and under each create ‘Week 01’ pages
- Become familiar with the ‘old/traditional’ version of Google Sites!

Mobile CSP Course Registration

- Click on the link in your Portfolio or go to:

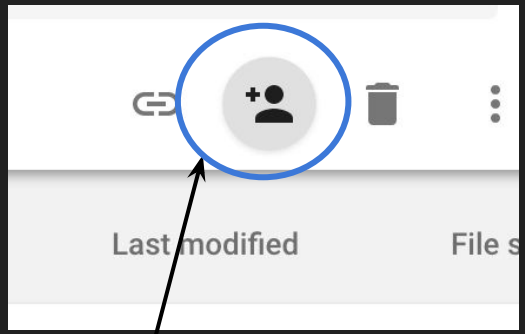
https://course.mobilecsp.org/mobilecsp

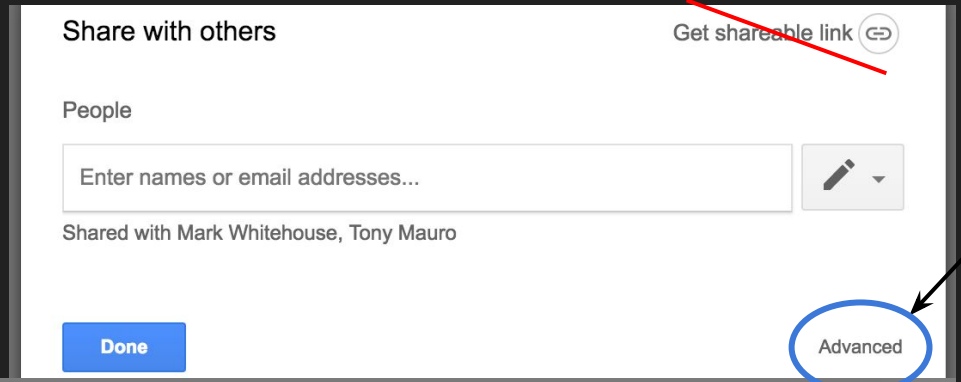
- Register using your school Google account name e.g.

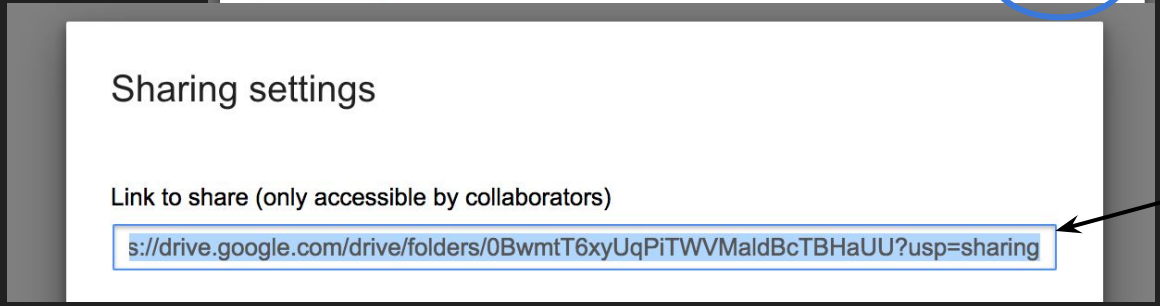
smithj6089@my.sduhsd.net

Complete New Student Form

- You will need some of the links you created from Google Drive - since you have already shared the top level with me - just get the link:







1

2

3

Homework - Syllabus

- Open the Google Form - CSP Syllabus
- Show to parents / guardian
- Both you and your parents must electronically sign the Google Form

Setup Checklist

- ❑ School Google account
- ❑ Google Classroom - joined class
- ❑ Google Drive setup - shared top level folder
- ❑ Mobile CSP Portfolio - created from template and shared
- ❑ Mobile CSP Course Registration
- ❑ New Student Form
- ❑ Syllabus Form

END SLIDE

Questions:

- AP Class signup - when
- Journals - when

AP Digital Portfolio - Setup

AP Class Sign Up

You will need to login to the college board website and join the class using the code below:

http://collegeboard.org/digital-portfolio

Enrollment codes:

- Period 1: QPI7FO
- Period 3: 6A1FAH
- Period 4: AMPE3M

Unit 1 Journal

- ??Mechanism for Journals???? / Integration with Portfolio
- Make a copy of the Journal template doc in Google Classroom. Copy it to the U1 folder and call it ‘Unit 1 Journal’.
- For this course please add new journal entries at the top of the doc (the oldest ones will be at the bottom)
- Create your first journal entry now:

Describe the coolest new technology you have seen recently?