

Dear AP Computer Science Principles students:

Over the course of the summer I have assigned work to help you get started in coding. Before you begin coding, please join the [AP Computer Science Principles Summer 24](#) Google Classroom. You must be logged into your Grace Gmail account to access Google Classroom. If you are new to Grace and/or you do not yet have a Grace email, make sure you save the necessary files on your computer or a flash drive to submit at a later time. The class code for [Google Classroom](#) is **x3ehp6i**.

The website you will be using to create your code is called Snap. You will be using Snap to complete lessons from “The Beauty and Joy of Computing” (see link below.) While you can complete as many lessons as you would like, I have assigned specific lessons to be completed prior to the beginning of school. Each lesson should take less than 30 minutes to complete. Note that many of the assignments ask for you to discuss with a partner: Try to think through each independently. You will find the list of assignments on the next page. Please save your files in Snap as instructed and follow the instructions to “**Export summary**” and “**Export project**” for each completed program. After you have exported the files, upload the files to the correct assignment on Google Classroom.

While I understand that you may run into obstacles in coding, this will be a great way to get prepared for the tasks that will occur during the year. The best advice I can give you is to read and follow the instructions carefully. Please use a composition book or another way of documenting challenges that you face and how you figured them out.

One of the major parts of AP Computer Science Principles is analysis of computing innovations. Please research and list 10 computing innovations and then complete the form at the end about one of those innovations. If you have access to Google Classroom, the assignment will also be listed there with the form to complete.

Finally, there are many terms associated with AP Computer Science Principles. While it is unrealistic to expect you to memorize the terms without context over the summer, I would highly encourage you to review the list of terms in [quizlet](#).

I look forward to meeting all of you in the fall. Please don't hesitate to ask questions if you have any. I will sporadically be checking my email over the summer and will get back to you as soon as I can. Have a great summer.

In Christ,

Mr. Yui
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Create a Snap account (see instructions [here](#))
<https://snap.berkeley.edu/snapsource/snap.html>

The Beauty and Joy of Computing
<https://bjc.edc.org/bjc-r/course/bjc4nyc.html>

Summer Assignments

The Beauty and Joy of Computing

Unit 1 – Introduction to Programming

Complete Labs 1, 2, 3, and 5 and submit the following summaries and projects

- U1L1 - ClickAlonzo
- U1L2 - Gossip
- U1L3 - AngleExperiments1
- U1L3 - AngleExperiments2
- U1L3 - Pinwheel
- U1L3 - Squiral
- U1L5 - SpriteChase

Google Classroom Export project and summary submissions

- To Export summary – click on the “File” menu (looks like a piece of paper), select Export summary
- To Export project – click on the “File” menu (looks like a piece of paper), select Export project
- To upload to Google Classroom, go to Google Classroom and log in. Then choose the assignment to complete. Choose the “Add” button and attach the files that were exported from Snap

Computing Innovation

- Research and list 10 computing innovations
- Pick one that you are interested in
- Fill out the form regarding the innovation