

<A.P. CSP>

Advanced Placement - Computer Science Principles

Summer Assignment

Briarcliff High School

2022 – 2023 School Year

To: Future AP Computer Science Principles Students

Welcome to AP CSP! As we eagerly anticipate a great year of Computer Science Principles, there are several required items you need to do to be prepared for the course. Enrolling in this class indicated that you agree to complete this course and the culminating AP CSP College Board tasks, assignments, and exam.

I have prepared a summer assignment list that reviews basic CSP concepts and practices. It is highly recommended that you spread out the summer assignments and not try to complete them all in the first week of August. CSP takes time to process and grasp at a level necessary for success in AP CSP. Remember, that AP CSP is a college level course and that taking a course of this magnitude in high school is difficult, requires dedication, and is a great investment in your education, so prepare yourself and arrive ready to learn.

Have a great summer and enjoy the AP CSP Summer Assignments!

The Summer Assignment: Details

The summer assignment consists of three parts, all completed electronically. You are required to complete and submit all of the parts:

- 1) Reading and Response
- 2) Programming Fundamentals
- 3) Video FYI

Due date: August 22nd, 2022. No exceptions.

Submit your completed materials to Mr. Lo: clo@briarcliffschools.org. The e-mail subject must be in the following style: “**AP CS P SUMMER ASSIGNMENT – [First Name] [Last Name]**”

By completing all parts successfully, you will begin class with a **test grade of 100**. Incomplete assignments are graded on a scale; if your assignment is severely incomplete, you will not receive a grade.

The Summer Assignment: Reading and Response

Choose at least **3 chapters** (*there are 8 chapters total in the book*) to read from the **REQUIRED READING** -- “**Blown to Bits**” **Your Life, Liberty, and Happiness After the Digital Explosion** by Hal Abelson, Ken Ledeen & Harry Lewis (384 pages) available free online (<http://www.bitsbook.com/thebook/>)

Download the **response template** (<https://tinyurl.com/mtt4ex3a>) and complete your responses following the directions in the word document file. Change the file name so your first and last name is shown.

You may read and respond to additional chapters using the response template. Any additional chapters read and responded to will grant extra credit which can be used towards a marking period grade.

NOTE: Throughout the year, you may be given quizzes on the vocabulary and other content from this book.

The Summer Assignment: Programming Fundamentals

Create an account or log in to an existing account on **Khan Academy** and enroll in the class, “**AP CS Principles (2022-23)**” using this link: <https://www.khanacademy.org/join/6Y3D877N> or class code: **6Y3D877N**. E-mail Mr. Lo (clo@briarcliffschools.org) once you’ve done this so Mr. Lo can give you the assignments.

Complete all the assignments. These are designed to introduce you into the programming component of AP CS Principles. There will be two quizzes in the lessons, but the scores you receive on them will not affect your grade. You may reach out to Mr. Lo if you get stuck or have any questions in this area.

The Summer Assignment: Video FYI

Select two of the following videos/films below and watch them:

<u>Recommended Feature Films</u>	<u>Recommended YouTube Videos</u>
Hidden Figures (2016)	Binary Numbers (https://www.youtube.com/watch?v=LpuPe81bc2w)
Citizen Four (2014)	
The Internet's Own Boy (2014)	How does Airplane Wifi work? (https://www.youtube.com/watch?v=x8xUzF_hcg)
Her (2013)	
TPB AFK (2013)	
The Social Network (2010)	
The Matrix (1999)	Encryption & Public Keys (https://www.youtube.com/watch?v=ZghMPWGXexs)
Apollo 13 (1995)	
The Right Stuff (1983)	
Interstellar (2013)	
The Martian (2014)	

Using the **same response template from Reading and Response you filled out** (don’t create a new file, use the same file), complete your responses following the directions in the word document file. Don’t forget to change the file name so your first and last name is shown.

You may watch and respond to additional videos using the response template. Any additional videos watched and responded to will grant extra credit which can be used towards a marking period grade.