

## AP Computer Science Principles

Future AP Computer Science Principles Student, Welcome to AP CSP!

I am eagerly anticipating a great year of Computer Science Principles. In order to ensure the best start for everyone next year, I have prepared a summer assignment that reviews basic CSP concepts and big ideas.

There are two parts to your summer assignment.

### 1) **Creating:** *Code.org*

Create an account with code.org ( <https://code.org/> ).

*Complete* the following three lessons from *Accelerated Intro to CS Course* - <https://studio.code.org/s/20-hour>

- Lesson 1: *Introduction*
- Lesson 2: *The Maze*
- Lesson 3: *Computational Thinking*

Expect each lesson to take approximately one hour. Your progress and assessment is clearly available when you are logged in. I will check your accounts on the first day of the school for completion and note assessments.

Send me an e-mail at [mmuroff@sdja.com](mailto:mmuroff@sdja.com) with your account information (username, password) BEFORE the first day of school on Monday, August, 21<sup>st</sup>.  
*Late work will not be accepted.*

### 2) **Reading:** The second part of your summer assignment is to read the book “Blown to Bits” (details can be found in the course booklist). Note that throughout the year you will be given quizzes on the vocabulary and other content from this book. In addition, many tests will include a significant amount of material from this book.

In the book, the authors introduce 7 separate Koans – truths – about digital information technology.

Koan #1: “It’s all just bits.”

Koan #2: Perfection is normal

Koan #3: There is want in the midst of plenty

Koan #4: Processing is power

Koan #5: More of the same can be a whole new thing

Koan #6: Nothing goes away

Koan #7: Bits move faster than thought

For the first day of class, please turn in a short description of what each Koan means AND give at least one specific example of how each concept relates to you personally.

You will turn in a printed Word document that uses the following specifications:

- Font-type: Times-New Roman
- Font-Size: 13
- Line Space: 1.15
- Margin: Normal

Your *printed* document will be due on the first day of class on Monday, August, 21<sup>st</sup> or Tuesday the 22<sup>nd</sup> (whichever is our first day together).

*Late work will not be accepted.*

***Please do not try to complete it all in the final week of the summer.*** CSP takes time to process and grasp at a level necessary for success in AP CSP. Remember, AP CSP is a college level course and requires dedication, so prepare yourself and arrive ready to learn.

Textbook Title: Blown to Bits: Your Life, Liberty, and Happiness After the Digital Explosion

Author: Hal Abelson

Publisher: Addison-Wesley Professional

Edition: 1st

Year: 2009

ISBN: 0137135599 (ISBN-13: 978-0137135592)

Notes: Available from their website or from Amazon.