

## AP COMPUTER SCIENCE – A (JAVA) SUMMER ASSIGNMENT

1. Read the “Computing in Context” handout attached. Create a PowerPoint presentation of the important points.
2. Download the Alice program at [www.alice.org](http://www.alice.org). Do the tutorial. Create a world with objects. Save on disk or flash drive. You will present this to the class.
3. Do the Summer Project - (handout attached).

**NOTE: SUMMER ASSIGNMENTS ARE DUE THE FIRST CLASS IN THE FALL.**

**AP COMPUTER SCIENCE SUMMER PROJECT**  
See Mrs. Frye to pick your topic – first come, first pick.

Create a presentation about the following topic. (If you register over the summer, email me for your topic.)

	TOPIC
1	AACPS Computer Use Policy – What does it mean for you? (check website)
2	The Advanced Placement Test – What is it? What does it require? How are the exams graded?
3	Binary and hexadecimal number systems – conversions.
4	Byte code and ASCII code
5	Calculator vs. computer
6	Computer programming
7	Debugging
8	ENIAC
9	Programming errors – types
10	Hardware
11	Java – Why was it developed? Developers? Good and bad features?
12	Library packages for Java
13	Machine code vs. high-level programming languages
14	Networks
15	New features of Java 5.0
16	Objects and classes in Java
17	Parts or components of a computer
18	Primary memory
19	Software
20	Secondary memory
21	Cyber-crime

- Your presentation may be in a format that you choose (PowerPoint, web page or other oral presentation).
- You should include visual items as necessary.
- Your references should include at least one online source and one other source. Be sure to include citations where applicable. **NO PLAGIARISM!!!**
- The presentation is due when class begins in the fall.
- Your presentation should show evidence of planning, organization, and subject knowledge.
- You will be presenting your information to the class.
- This will be counted as the first grade for the first semester. Late items will be penalized.

Please contact me at [BFrye@aacps.org](mailto:BFrye@aacps.org) if you have any questions.

Please note:

There is a textbook assignment related to this assignment.

Please email the appropriate teacher or visit guidance to obtain a copy of the textbook portion.