AP Computer Science A

Summer Assignment, 2016

Welcome to AP® Computer Science! AP® Computer Science A is equivalent to a one semester college-level introductory course in Computer Science. The course develops problem-solving skills from problem analysis through design, implementation, and testing of robust, object-oriented solutions written in the Java programming language. To prepare you for the content of the 2016 – 2017 AP®Computer Science A Exam we will follow a scope and sequence syllabus that has been approved by the College Board. The only remaining ingredients for a successful year are the motivation, enthusiasm, resourcefulness, and dedication you apply to your learning experience. I look forward to a great year!! To be sure you are ready to “hit the ground running” as they say, you are responsible for completing the following tasks prior to the first day of school.

1. Watch the YouTube Video titled Lec 1 | MIT 6.00 Introduction to Computer Science and Programming, Fall 2008 . If you enter the keywords “MIT computer science data type”, or something similar, you will see it listed. The professor is wearing a white dress shirt and is standing in front of a chalk board. There are several lectures in this series so be sure to select Lecture 1. Length: 53:30. Take notes – there may be an open notes quiz on this material in the first days of school…

2. Read Java Methods A & AB , Chapter 1. An Introduction to Hardware, Software, and the Internet. (Attached or link to chapter: <http://www.skylit.com/javamethods/>)

3. Complete Java Methods Chapter 1 Exercises at the end of the chapter. This will be turned in on the first day of class and counted as your first recorded assessment. Do not start the year with a 0 (zero). Computer Science is all about being resourceful and that means looking things up to help you complete a task. There are some topics in this chapter that may not be the easiest to understand without being able to work on them, and ask questions, in class. Feel free to access videos and other resources on-line to help you with this content and the assignment. You may be familiar with some, but probably not all, of the content in this chapter and although it is important foundational knowledge that will creep up in class discussions, it is not an integral part of our day-to-day curriculum. Take the time to become familiar with it

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Please e-mail me at [rsweeney@scspk12.org](mailto:rsweeney@scspk12.org) if you need to reach me over the summer about this assignment, but please do not wait until the last minute as I will be on vacation the first half of August and my days are very busy leading into the start of school. Have a great summer!!!

Mrs. Sweeney

Please bring this signed stub to class on the first day of school to acknowledge that you understand the importance of this assignment and that you completed it by the first day of school.

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Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Do you have a computer at home (Chromebook doesn’t count as it will not load java)? \_\_Y \_\_N