# AP Computer Science Pacing Guide

**Unit 5 – ArrayLists**

**Online textbooks are Building Java Methods by Stuart Regges and Marty Stepp and**

**Blue Pelican Java by Charles E. Cook under the textbook tab.**

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| **Day** | **Assignments** | **References** |
| **1**  **12/02-03**  ***Objectives: Students will be able to create, read, trace, and use ArrayLists. Students will be able to read and write for each loops*** | **ArrayList WS #1 (5 points)**    **For Each WS (5 points)**  **Notebook Lab (10 points)** | **Read Notes on ArrayLists**  **Blue Pelican Java Lesson 42 and 43**  **Java ArrayList Review Notes**  **Building Java Programs textbook Ch. 10**  **Go over ArrayList Examples 1 & 2** |
| **2**  **12/04-05**  ***Objectives: Students will be able to create, read, trace, and use the List interface*** | **List Interface Methods Chart WS (5 points)**    **APCS Students Lab (10 points)** | **ArrayList Summary**  **Read Notes on ArrayLists**  **Blue Pelican Java Lesson 42 and 43**  **Java ArrayList Review Notes**  **Building Java Programs textbook Ch. 10**  **Go over ArrayList Examples 1 & 2** |
| **3**  **12/06-09**  ***Objectives: Students will be able to create, read, trace, and use the List interface*** | **ArrayLists Free Response AP Questions Practice** | **ArrayList Summary**  **Read Notes on ArrayLists**  **Blue Pelican Java Lesson 42 and 43**  **Java ArrayList Review Notes**  **Building Java Programs textbook Ch. 10**  **Go over ArrayList Examples 1 & 2** |
| **4**  **12/10-11**  ***Objectives: Students will be able to create, read and trace an array of Objects. Students will do a practice problem to prepare for the formative assessment*** | **ArrayList WS #2**  **(5 points)**  **MyTunes Lab (15 points)**  **Submit to GradeIt** | **Read Notes on ArrayLists**  **arrayList2.ppt**  **Blue Pelican Java Lesson 42 and 43**  **Java ArrayList Review Notes**  **Building Java Programs textbook Ch. 10**  **Go over ArrayList Examples 1 & 2** |
| **5**  **12/12-13**  ***Objectives: Students will learn the binary search algorithm and how to use merge sort*** | **ArrayList Quiz (20 points)**  **APCS ArrayList Multiple Choice WS (5 points)** | **Read Notes on ArrayLists**  **arrayList2.ppt**  **Blue Pelican Java Lesson 42 and 43**  **Java ArrayList Review Notes**  **Building Java Programs textbook Ch. 10**  **Go over ArrayList Examples 1 & 2** |
| **6**  **12/16-17**  ***Objectives: Students will review to prepare for the summative assessment*** | **REVIEW**  **Answers to the worksheets will be posted at 3:00 pm 12/17.**  **At this point no Worksheets will be accepted.** | **LAST DAY FOR ALL REMAINING ARRAYLIST PROGRAMS** |
| **7**  **12/18-19**  ***Objectives: Students will take a summative assessment*** | **Unit 5 TEST ArrayLists** | **Read Notes on Inheritence**  **onLineTextbook Chapter 9**  **Java Inheritence Lecture Notes** |
| **8**  **12/20**  ***Objectives: Students will be able to create, read, trace, and use the List interface*** | **ArrayLists Free Response AP Questions Practice** | **ArrayList Summary**  **Read Notes on ArrayLists**  **Blue Pelican Java Lesson 42 and 43**  **Java ArrayList Review Notes**  **Building Java Programs textbook Ch. 10**  **Go over ArrayList Examples 1 & 2** |