

	<b>MONDAY (A)</b>	<b>TUESDAY (B)</b> 3:05–4:35	<b>WEDNESDAY (A)</b> 1:30–3:00	<b>THURSDAY (B)</b> 3:05–4:35	<b>FRIDAY (B)</b> 3:05–4:35
	<b>Objective(s): SWBAT</b> - Navigate a 2D array - Apply Classes in python	<b>Objective(s): SWBAT</b> - Understand and Implement the merge sorting algorithm - Explain the complexity of merge sort	<b>Objective(s): SWBAT</b> - Navigate a 2D array - Apply Classes in python	<b>Objective(s): SWBAT</b> - Apply sorting algorithms to manage large datasets - Apply HashMaps for quick lookup of data	<b>Objective(s): SWBAT</b> - Apply sorting algorithms to manage large datasets - Apply HashMaps for quick lookup of data
<b>P</b>	<b>Engage</b> - Bell Ringer	<b>Engage</b> - Students will complete 3 practice AP MC Questions	<b>Engage</b> - Bell Ringer	<b>Engage</b> - Students will complete 3 practice AP MC Questions	<b>Engage</b> - Students will complete 3 practice AP MC Questions
<b>L</b>  <b>A</b>	<b>Explore:</b> Students will work on creating a clone of Zork  <b>Explain:</b> Students will watch a short lecture on accessing and manipulating arrays  <b>Elaborate:</b> discuss more things they can add to the game using 2D lists	<b>Explore:</b> Students will implement Merge Sort  <b>Explain:</b> Students will watch a short lecture on sorting and write pseudocode of the merge sort on the board.  <b>Elaborate:</b> explain why merge sort is better than $O(n^2)$ algorithms	<b>Explore:</b> Students will work on creating a clone of Zork  <b>Explain:</b> Students will watch a short lecture on accessing and manipulating arrays  <b>Elaborate:</b> discuss more things they can add to the game using 2D lists	<b>Explore:</b> Students will implement a Wordle helper  <b>Explain:</b> Students will work with the teacher to discuss strategies to create a wordle bot.  <b>Elaborate:</b> 3B1B video on “solving wordle with information theory”	<b>Explore:</b> Students will implement a Wordle helper  <b>Explain:</b> Students will work with the teacher to discuss strategies to create a wordle bot.  <b>Elaborate:</b> 3B1B video on “solving wordle with information theory”
<b>N</b>	<b>Evaluate:</b> Walk around checking on everyone’s progress  <b>Summary:</b> Students will explain how to navigate a 2D list  <b>Assessment(s):</b> Exit Ticket	<b>Evaluate:</b> Walk around checking on everyone’s progress  <b>Summary:</b> Students will explain how merge sort works and why it is more efficient  <b>Assessment(s):</b> Exit Ticket, Submitted project	<b>Evaluate:</b> Walk around checking on everyone’s progress  <b>Summary:</b> Students will explain how to navigate a 2D list  <b>Assessment(s):</b> Exit Ticket	<b>Evaluate:</b> Walk around checking on everyone’s progress  <b>Summary:</b> Students will explain how they are using the concepts of HashMap and Sorting to solve a real data problem  <b>Assessment(s):</b> Exit Ticket	<b>Evaluate:</b> Walk around checking on everyone’s progress  <b>Summary:</b> Students will explain how they are using the concepts of HashMap and Sorting to solve a real data problem  <b>Assessment(s):</b> Exit Ticket
<b>Resources:</b>	<b>Resource Requirements:</b>  Laptops with access to Replit	<b>Resource Requirements:</b>  Laptops with access to Replit	<b>Resource Requirements:</b>  Laptops with access to Replit	<b>Resource Requirements:</b>  Laptops with access to Replit	<b>Resource Requirements:</b>  Laptops with access to Replit