AGENDAS FOR THE WEEK: *Feb 20 – Feb 24* | CT: Mr. Yin, Room 301

	MONDAY (A)	TUESDAY (B) 3:05–4:35	WEDNESDAY (A) 1:30–3:00	THURSDAY (B) 3:05–4:35	FRIDAY (A) 1:30–3:00
	No School (Presidents' Day)	**Objective(s): SWBAT** Understand and Implement O(n^2) sorting algorithms	**Objective(s): SWBAT** - Apply the concept classes to making games. - Apply the concept of inheritance to making games	**Objective(s): SWBAT** -Understand and Implement the merge sorting algorithms - Explain the complexity of merge sort	**Objective(s): SWBAT** - Apply the concept classes to making games. - Apply the concept of inheritance to making games
P		**Engage** - Students will complete 3 practice AP MC Questions - Show visualizations of various sorting algorithms	**Engage** - Bell Ringer	**Engage** - Students will complete 3 practice AP MC Questions - Show visualizations of various sorting algorithms	**Engage** - Bell Ringer
L **A**		**Explore:** Students will implement Bubble Sort, Insertion sort, and Selection Sort **Explain:** Students will watch a short lecture on sorting and write pseudocode of the three sorting algorithms on the board. **Elaborate:** discuss the efficiency and hint at more advanced algorithms	**Explore:** Students finish working on the Box Shooting project. **Explain:** Go over common questions from the previous class **Elaborate:** Summarize the benefits of Classes and Inheritance	**Explore:** Students will implement Merge Sort **Explain:** Students will watch a short lecture on sorting and write pseudocode of the merge sort on the board. **Elaborate:** explain why merge sort is better than O(n^2) algorithms	**Explore:** Students begin working on the Zombie shooter project. **Explain:** Go over the project requirements **Elaborate:** Summarize the benefits of Classes and Inheritance
N		**Evaluate:** Walk around checking on everyone's progress **Summary:** Students will explain how each of the three n^2 sorting algorithms work **Assessment(s):** Exit Ticket, Submitted project	**Evaluate:** Walk around checking on everyone's progress **Summary:** Students will explain why classes are useful and when you may want to use them **Assessment(s):** Exit Ticket	**Evaluate:** Walk around checking on everyone's progress **Summary:** Students will explain how merge sort works and why it is more efficient **Assessment(s):** Exit Ticket, Submitted project	**Evaluate:** Walk around checking on everyone's progress **Summary:** Students will apply everython they have learned in the semester so far to build a more complex game in python **Assessment(s):** Exit Ticket
Resources:		**Resource Requirements:** **Laptops with access to Replit**	**Resource Requirements:** **Laptops with access to Replit**	**Resource Requirements:** **Laptops with access to Replit**	**Resource Requirements:** **Laptops with access to Replit**