Nomo	Цани	Deter	
Name:	Hour:	Date:	



Does type of SAT prep matter?



EKHS has decided to offer an SAT prep class again this year. It will be offered in two different formats: online or classroom teacher. The counselors want to know which teaching method will yield higher SAT scores so they have allowed us to set up an experiment. 50 students have signed up to take some form of the SAT prep class. (20 seniors and 30 juniors)

1. Outline a completely randomized design to compare the two treatments.

2. The counselors at EKHS hypothesize that the online vs. classroom results could be greatly affected by the grade level of students that were put into each treatment group. They know that seniors generally score better on the SAT than juniors. How could we adjust our experiment to ensure that there is even split of seniors and juniors in each class? Draw an outline of the experiment with your modifications.

3. The counselors are now worried that a student's GPA is certainly going to affect their SAT score. Let's look only at the Juniors. We want to be sure that the different GPAs are being evenly distributed into the two treatment groups. How could we be sure the GPAs are evenly distributed?



Name	e: H	lour:	Date:		
Randomized Block Designs					
Important	t Ideas:				
Check Your Understanding:					
three	itical strategist would like to design an experiment different YouTube advertisements promoting a specific use 300 randomly selected YouTube users for	pecific pres	sidential candidate.		
1.	Describe a completely randomized design to co three advertisements.	mpare the	effectiveness of the		
2.	Describe a randomized block design for this exp	periment. J	ustify your choice of		
3.	. Why might a randomized block design be prefer	rable in this	s context?		

