AP Statistics 19-20
Chapter 4 – Experimental Design

Name:
Period:

HW is always due the day of the unit test.

Assign #	Week of	Class Day	In-Class Topic (s)	Assignment	DONE (2pts each)
	Week of 09/28	1	Experimental Design Vocab practice Project time	Finish vocab practice Work on project #1	
1		2	4.1 Sampling and Surveys Project time	p.229 #5, 6, 8, 18, 25, 30, 33, 35 Work on project #1	
2		3	4.1 Sampling Methods and Randomization Process Project time	p.230 #11, 12, 18, 21, 23, 27 Work on project #1	
3	*Week of 10/05*	1	4.2 Experimental Outlines and the Language of Experiments (Principles of Experimental Design, confounding)	p.259 #48, 50, 51, 56, 58, 61 Work on project #1	
4		2	4.2 - Experimental Outline - (CRD, Blocking, Matched Pairs) Project time	p.261 #67, 70, 72, 75,78, 81 Work on project #1	
5		3	4.3 Using Studies Wisely Work on class survey Project #1 due (electronically)	p.273 #97, 98, 100, 102, 103	
6	*Week of 10/12*	1	Review Work on class survey	p.278 #1, 3, 4, 5, 9, 10 p.275 FRAPPY!	
7		2	Review FRAPPY! Work on class survey **Project #2 Introduced**	Review Sheet *(Optional: p. 279 AP Practice Test)*	
		3	***Unit 3 - Chapter 4 Test***	Work on project #2	

Why did the chicken cross the road?

Unit 3 - Chapter 4 - Experimental Design

#	Learning Target	Got it	Almost There	Needs Some work
1	I can identify the population and sample in a sampling situation.			
2	I can describe voluntary response and convenience samples and explain how these methods can lead to bias.			
3	I can describe how to select simple random samples, stratified random samples, and cluster samples.			

4	I can describe how to use a table of random numbers or a random number generator to select a simple random sample.			
5	I can explain how undercoverage, nonresponse, and question wording can lead to bias in a survey.			
6	I can distinguish between an observational study and experiment			
7	I can identify experimental units, explanatory variables, treatments, and response variables in an experiment.			
8	I can describe a completely randomized design for an experiment.			
9	I can explain the meaning and purpose of blinding in an experiment.			
10	I can distinguish between completely randomized designs and randomized block designs.			
11	I can describe a randomized block design, including a matched pairs design for an experiment.			
12	I can determine the scope of inference for a statistical study.			
13	I can evaluate whether a statistical study has been carried out in an ethical manner.			