2014-2015 AP Statistics Assigments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

Chapter	Day	Topics	Objectives: Students will be able to…	Homework	Reading	5/6O	1/2B
This Chapter is vocabulary intentensive. It is important you understand the vocabulary in the ready and come to class prepared to ask questions. I highly recommend you do the Guided Notes, refer to the Glossary of important terms, and even make flashcards.							
4	0 (post test)	4.1 Introduction, Sampling and Surveys, How to Sample Badly, How to Sample Well: Random Samples	• Identify the population and sample in a sample survey. •Identify voluntary response samples and convenience samples. •Explain how these bad sampling methods can lead to bias. • Describe how to use Table D to select a simple random sample (SRS).	1, 3, 5, 7, 9, 11, 13	Section 4.1	7-Oct	8-Oct
Columbus Weekend - OFF OCT10 and OCT13							
4	1	4.1 Other Sampling Methods; Inference for Sampling, Sample Surveys: What Can Go Wrong? ***Activity 1 : Review Key Concepts of Survey Design & Choosing SRS using Table D*** ***Activity 2 : Frappy's 2001q3, 2003q4***	• Distinguish a simple random sample from a stratified random sample or cluster sample. Give advantages and disadvantages of each sampling method. • Explain how undercoverage, nonresponse, and question wording can lead to bias in a sample survey.	17, 19, 21, 23, 27, 31, 33, 35 **Optional: 37-42**	**Study for 4.1 Quiz**	9-Oct	14-Oct **½ day PSAT's**
4	2	4.2 Observational Studies vs. Experiments, The Language of Experiments, How to Experiment Badly ***Activity 1: The Jelly Blubber Sampling Design Activity*** ***Activity 2: Q/A for 4.1 Quiz - U bring?'s***	• Distinguish between an observational study and an experiment. • Explain how a lurking/extraneous variable in an observational study can lead to confounding. • Identify the experimental units or subjects, explanatory variables (factors), treatments, and response variables in an experiment.	45, 47, 51 **½ Test next class**	pgs. 231-236	15-Oct	16-Oct
4	3	**Quiz 4.1 (1/2 test grade)**				17-Oct	20-Oct
4	3	4.2 Experiments: How to Experiment Well, 3 Principles of Experimental Design What Can Go Wrong? Inference for Experiments **Activity: Frappy's 1998q3 , 1999q3, and 2004Bq2**	• Describe a completely randomized design for an experiment. • Explain why random assignment is an important experimental design principle. • Describe how to avoid the placebo effect in an experiment. • Explain the meaning and the purpose of blinding in an experiment. • Explain in context what "statistically significant" means.	53, 57, 59, 61, 63, 65	Finish Section 4.2	17-Oct	20-Oct

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4	4	4.2 Experiments: Blocking, Matched Pairs Design ***Activity: 4.2 Practice Examples***	• Distinguish between a completely randomized design and a randomized block design. • Know when a matched pairs experimental design is appropriate and how to implement such a design.	62, 67, 79, 85, 91-98, 103, 105, 106	Section 4.3	21-Oct	22-Oct
4	5	4.3 Scope of Inference, the Challenges of Establishing Causation ***Activity 1: Frappy's 2000q5, 2004q2, 2006Bq5*** ***Activity 2: Q/A for 4.2 Quiz - U bring ?'s***	•Determine the scope of inference for a statistical study. •Evaluate whether a statistical study has been carried out in an ethical manner.	Chapter 4 AP Practice Test **½ Test next class**		23-Oct	24-Oct
4	6	**Quiz 4.2 and 4.3 (1/2 test grade)**				27-Oct	28-Oct
4	6	Chapter 4 Review	Cumulative MC practice Test and Review FRAPPY's	Cumulative AP Practice Test #1		27-Oct	28-Oct
4	6	**Cumulative Test #1 (Chapters 1-4)**				29-Oct	30-Oct
Quarter 1 ends October 31st							