

2022-2023 AP Statistics Assignments

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

This Chapter is vocabulary intentensive !!!!!!!!!!!!!

- It is important you understand the vocabulary, take notes, and come to class prepared to ask & ANSWER questions.
- TIPS: Do Guided Notes while reading. Print and read Glossary of important terms. Make flashcards.

Graded NOTES (3x)- See my website for the template 'Analyzing Experiments Study Guide.' MUST TYPED. NO PLAGIRISM! Due day of test.

Chapter	Day	Topics	Objectives: Students will be able to...	Homework	Reading	7/8B
4	0 (post test)	4.1 Introduction, Sampling and Surveys, How to Sample Badly, How to Sample Well: Random Samples	<ul style="list-style-type: none"> • 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). 	Table D in back of TPS4e 1, 3, 5, 7, 9, 11, 13	Section 4.1	21-Oct
4	1	4.1 Other Sampling Methods; Inference for Sampling, Sample Surveys: What Can Go Wrong? <i>Activity 1: 4.1 Review Sampling Methods and Types of Bias</i> <i>Group Activity 1: Frappy's 2001q3, 2008q2</i>	<ul style="list-style-type: none"> • 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. 	13, 17, 19 -21, 23, 27, 31, 33, 35, 37-42 Complete and Grade Frappy's 2001q3, 2008q2	Section 4.2 pgs. 231-236	25-Oct
4	2	4.2 Observational Studies vs. Experiments, The Language of Experiments, How to Experiment Badly <i>Activity 1: The Jelly Blubber Sampling Design Activity (absent students do desmos version)</i> <i>Activity 2 (start): 4.2a Introduction to Experiments</i>	<ul style="list-style-type: none"> • Distinguish between an observational study and an experiment. *Identify the experimental units or subjects, explanatory variables (factors), treatments, and response variables in an experiment. 	45, 47, 51, 53 Complete and Grade Frappy's 2004Bq2 and 2010Bq2	Finish Section 4.2	27-Oct
4	3	4.2 Experiments: How to Experiment Well with the 3 Principles of Experimental Design <i>Activity 1 (finish): 4.2a Introduction to Experiments</i> <i>Activity 2 Frappy Discussion - Frappy's 1998q3, 1999q3</i> 4.2 Key Principals for Experiments plus Blocking, Blinding <i>Activity 1: 4.2b Designing Studies</i> <i>Activity 2 Frappy Discussion - 2000q5</i>	<ul style="list-style-type: none"> • Describe a completely randomized design for an experiment. • Explain why random assignment is an important experimental design principle. • Explain how a lurking/extraneous variable in an observational study can lead to confounding. • Distinguish between a completely randomized design and a randomized block design. • Explain the meaning and the purpose of blinding in an experiment. 	57, 59, 61a, 62 (you don't need to carry out RA), 67, 78, 79 Complete and Grade Frappy's 1998q3, 1999q3, 2000q5 63, 65, 85, 91-98	Section 4.3	31-Oct
Quarter 1 ends Tuesday November 1st						
4	4	4.2 Matched Pairs Design <i>Activity 1: Match Pairs - TPS4e #'s 84&85</i>	<ul style="list-style-type: none"> • Know when a matched pairs experimental design is appropriate and how to implement such a design. • Explain in context what "statistically significant" means. • Determine the scope of inference for a statistical study. • Evaluate whether a statistical study has been carried out in an ethical manner. 	103, 105, 106 Complete and Grade Frappy's 2002q2, 2004q2 (match pairs)		2-Nov
Election Day(Nov8 school) - Nov9(1/2 day) - Nov10(1/2 day) - Veteran's Day(Nov11 no school)						
3	5	Chapter Review: <i>Activity 1: Scope of Inference</i> <i>Activity 2: Chapter 4 MC (4.1, 4.2, 4.3, Practice Test)</i> <i>Activity 2 Frappy Discussion - 2003q4</i>		Complete Ch 4 AP Practice Test Complete and Grade Frappy's 2003q4, 2006q5, 2007q2, 2006Bq5		4-Nov
4	6	Chapter 4 Test (goes on Q2) - Guided Notes and Frappy's due this class		Cum.Practice Test DUE w/Test See Ch5 assignment sheet		8-Nov