2023-2024 AP Statistics Assignments

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

IMPORTANT: Essential concepts for TOH! Read sections as assigned. Notes will NOT be collected. Be prepared for 5-Min Open Notes Pop Q's (1/2 Q-grade)

Chapter	Day	Topics	Objectives: Students will be able to…	Homework	Reading	1/2O
		6 Chapter 9 FRAPPY's - 3 Frappy's will be on your Quiz - pace yourself				
9	0	9.1 The Reasoning of Significance Tests, Stating Hypotheses, Interpreting P-values, Statistical Significance		**SM video 9.1A** **SM video 9.1B** NG: 1, 3, 7, 9	Section 9.1 pg 528-536	7-Mar
9	1	9.1 The Reasoning of Significance Tests, Stating Hypotheses, Interpreting *P*-values, Statistical Significance *Activity #1 - Video* *9.1a&b Activity - Hypotheses Basics (start)*	• State correct hypotheses for a significance test about a population proportion(p) or mean(μ). • Interpret *P*-values in context. Video: "The Most Simple Introduction to Hypothesis Testing! - Statistics Help" https://youtu.be/UApFKiK4Hi8	**SM video 9.1C**	Section 9.1 pg 538-545	11-Mar
		Section 9.1 is a VERY important section to master the concepts! Make sure to study Type 1 and 2 Errors. **For power you need to understand everything in SM Video "9.1D Power"**				
9	2	9.1 Type I and Type II Errors *9.1a&b Activity - Hypotheses Basics (Finish)*	**9.1:** Interpret a Type I error and a Type II error in context, and give the consequences of each. Additional Resources - Khan Academy: 1) Introduction to Type I and Type II errors: https://youtu.be/Hdbbx7DIweQ 2) Type 1 errors: https://youtu.be/EowIec7Y8HM 3) Examples identifying Type I and Type II errors: https://youtu.be/JNOWWJeZBTc	**SM video 9.1D (make sure you understand Power)**	Section 9.2	mar13 (1/2 day)
9	tbd	*Time Permitting-* *9.1b Power Activity - Power of a test(FRQ '03#2)* *Technology: Investigating Power with an Applet* *http://www.rossmanchance.com/applets/power.html*	**9.1 Power of Test: Understand relationship between the significance level, α, *P*(Type II error), and power.** Additional Resources for AP Tets takers Khan Academy: 4) Examples thinking about power in significance tests: https://youtu.be/XnYUFgfbvm4 5) Test yourself. Do the questions in "Consequences of errors and significance"			
9	3	9.2 Carrying Out a Significance Test for a proportion *9.2a Activity - 1-Sides Significance Tests for p*	• Conduct a 1-sided significance test for p • Check conditions for carrying out a test about a population proportion (p)	**SM video 9.2A&9.2B** NG: 33, 37 , 41*, 43a,45* **(finish 9.2a ws)**		18-Mar
9	4	9.2 Two-Sided Tests, Confidence Interval, and Errors *9.2b Activity - Two-Sided Tests vs. Confidence Interval*	• Conduct 2-sided test for p • Understand connection between 2-sided tests and confidence interval	NG: 49*, 51, 53, 55* **(finish 9.2b ws)**	Section 9.3	20-Mar
9	5	9.3 Carrying Out a Significance Test for μ The One Sample *t* Test, Two-Sided Tests and Cis *9.3a Activity - Significance Tests and CIs for μ -* *use old version that does not include SM*	• Check conditions for a test about a population mean (μ) • Conduct a one-sample *t* test about a population mean μ • Use a confidence interval to draw a conclusion for a two-sided test about a population mean.	**SM video 9.3A** **SM video 9.3B** NG: 71*, 73 , 75*, 77a *use template **(finish 9.3a ws)**		22-Mar
		9.3 Significance Tests for Paired Data	MOVE TO CHAPTER 10			
9	6	**CH 9 Review. (create new FRQ review for 2024)**		**TPS Ch.9 AP Practice Test handout**		26-Mar
9	7	Ch9 Quiz - 55min time limit - MC(12 for 52pts) - 3 Frappys (3 for 48pts) - NO test corrections			**Start Ch10**	28-Mar