

J. L. Mann High School Weekly Lesson Plans 2025-2026

Teacher's Name: J. Sullivan Course: AP Statistics Dates: 10/13/25-10/17/25

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
STANDARDS	STANDARDS	STANDARDS	STANDARDS	STANDARDS
NO SCHOOL	UNC-3.I Explain why an estimator is biased or unbiased. UNC-3.J Calculate estimates for a population parameter. VAR-1.G Identify questions by variation in statistics for samples collected from the same population.	UNC-3.K Determine parameters of a sampling distribution of proportions UNC-3.L Determine whether a sampling distribution for a sample proportion can be described as normal. UNC-3.M Interpret probabilities and parameters for a sampling distribution for a sample proportion. UNC-3.H Estimate sampling distributions using simulation.	UNC-3.Q Determine parameters for a sampling distribution for sample means. UNC-3.R Determine whether a sampling distribution of a sample mean can be described as approximately normal. UNC-3.S Interpret probabilities and parameters for a sampling distribution for a sample mean.	UNC-3.H Estimate sampling distributions using simulation.
LEARNING TARGET	LEARNING TARGET	LEARNING TARGET	LEARNING TARGET	LEARNING TARGET
NO SCHOOL	Students will distinguish between a parameter and a statistic. Students will calculate the proportion of heads when flipping a coin 20 times to create a sampling distribution of $\hat{p}$. Students will determine whether a statistic is an unbiased estimator of a population parameter.	Through the Reece's Pieces simulation students will discover how changes in the sample size affect the variability of a sampling distribution. Students will be able to use normal approximation to calculate probabilities of $\hat{p}$ using the sampling distribution of sample proportions.	Through the simulation students will determine how sample size changes the shape of a sampling distribution of sample means. Students will be able to use normal approximation to calculate probabilities of $\bar{x}$ using the sampling distribution of sample means.	Students will identify the similarities and differences of the sampling distributions of means and proportions. Students will use the central limit theorem to determine the shape of a sampling distribution of sample means.

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ACTIVATING STRATEGY	ACTIVATING STRATEGY	ACTIVATING STRATEGY	ACTIVATING STRATEGY	ACTIVATING STRATEGY
	Bellwork	Bellwork	Bellwork	Bellwork
LESSON ACTIVITIES	LESSON ACTIVITIES	LESSON ACTIVITIES	LESSON ACTIVITIES	LESSON ACTIVITIES
	Parameters vs Statistics Bias and Variability	Sampling Distribution of Proportions Reece's Pieces Simulation	Sampling Distribution of Means Simulation Central Limit Theorem	Chart Comparing Sampling Distributions of Means vs. Proportions Chapter 7 Review Game
CLOSURE	CLOSURE	CLOSURE	CLOSURE	CLOSURE
	Practice Problems HW pg. 428-431 #1, 2, 6, 8, 9, 19, 21-24	Practice Problems HW 7.2 Practice Problems	Practice Problems HW 7.3 Practice Problems	Practice Problems HW Test Review
Important Due Dates: Monday, October 20th Chapter 7 Test				

How are you utilizing UDL learning guidelines and strategies within your weekly lessons? Check the boxes or highlight :)

REPRESENTATION options for presenting content	ENGAGEMENT options for engaging student interest	EXPRESSION options for students to demonstrate learning	CULTURAL CONSIDERATIONS	ASSESSMENTS
☐ Artifacts ☐ Pictures ☒ Graphic Organizers ☐ Video Clips ☐ Audio Recordings ☐ Lab ☒ Lecture ☐ Other:	☒ Cooperative Work ☒ Partner Work ☒ Manipulatives ☐ Movement ☐ Debates ☐ Role Plays or Simulations ☐ Other:	☒ Written Response ☒ Illustrated Response ☒ Oral Response ☐ Model Creation ☐ Construction ☐ Other:	☐ Nature of content & ethnicity and/or culture of students ☐ Other:	☒ Class Work ☐ Journals ☒ Group Discussion ☒ Individual Participation ☒ Quiz / Test ☐ Project ☐ Conference ☐ Essay

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				☐ Other:
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*All adjustments to the teacher's lesson plans will be communicated to the students.