



WESTSIDE HIGH SCHOOL

Level Up: *RISE* to Your Potential

24-25 Lesson Plan Template

Teacher: **COACH BARROW**

Subject: **ON RAMPS STATISTICS**

Week of: JANUARY 6	Monday	Tuesday	Wed./Thurs.	Friday
TEKS		<p>4(E) Compare and contrast meaningful information derived from summary statistics given a data set.</p> <p>6(B) Explain how changes in the sample size, confidence level, and standard deviation affect the margin of error of a confidence interval.</p> <p>6(D) Calculate a confidence interval for a population proportion.</p> <p>6(F) Explain how a sample statistic provides evidence against a claim about a population parameter when using a hypothesis test.</p> <p>6(I) Interpret the results of a hypothesis test using technology-generated</p>	<p>4(E) Compare and contrast meaningful information derived from summary statistics given a data set.</p> <p>6(B) Explain how changes in the sample size, confidence level, and standard deviation affect the margin of error of a confidence interval.</p> <p>6(D) Calculate a confidence interval for a population proportion.</p> <p>6(F) Explain how a sample statistic provides evidence against a claim about a population parameter when using a hypothesis test.</p> <p>6(I) Interpret the results of a hypothesis test using technology-generated</p>	<p>4(E) Compare and contrast meaningful information derived from summary statistics given a data set.</p> <p>6(B) Explain how changes in the sample size, confidence level, and standard deviation affect the margin of error of a confidence interval.</p> <p>6(D) Calculate a confidence interval for a population proportion.</p> <p>6(F) Explain how a sample statistic provides evidence against a claim about a population parameter when using a hypothesis test.</p> <p>6(I) Interpret the results of a hypothesis test using technology-generated</p>

		results such as large sample tests for proportion, mean, difference between two proportions, and difference between two independent means.	results such as large sample tests for proportion, mean, difference between two proportions, and difference between two independent means.	results such as large sample tests for proportion, mean, difference between two proportions, and difference between two independent means.
Learning Objective		STUDENTS WILL BE ABLE TO DIFFERENTIATE BETWEEN INDEPENDENT AND DEPENDENT SAMPLES AND RECOGNIZE WHEN EACH SHOULD BE USED.	STUDENTS WILL BE ABLE TO PERFORM AN INDEPENDENT SAMPLES T-TEST AND USE A CRITICAL VALUE AND P-VALUE TO REFUTE A CLAIM.	STUDENTS WILL BE ABLE TO PERFORM AN INDEPENDENT SAMPLES T-TEST AND USE A CRITICAL VALUE AND P-VALUE TO REFUTE A CLAIM.
Higher Order Thinking Questions				
Agenda		<ol style="list-style-type: none"> 1. WAG 2. 5.1 NOTES – INDEPENDENT T-TESTING 3. HAND CALCULATION 	<ol style="list-style-type: none"> 1. SIMULATION WITH TWO SAMPLES 2. LESSON CHECK 5.1 3. CALCULATING ERROR 	<ol style="list-style-type: none"> 1. HOMEWORK 5.1 2. R STUDIO 5.1
Demonstration of Learning		DIFFERENTIATE BETWEEN INDEPENDENT AND DEPENDENT SAMPLES AND WHEN SHOULD YOU USE EACH.	DESCRIBE THE CHANGES TO THE PROBABILITY OF A TYPE II ERROR WHEN YOU DECREASE/INCREASE THE VALUE OF THE	DESCRIBE THE CHANGES TO THE PROBABILITY OF A TYPE II ERROR WHEN YOU DECREASE/INCREASE THE VALUE OF THE

			SAMPLE SIZE.	ALPHA LEVEL, A.
Intervention & Extension		LESSON 5.1 PRACTICE PROBLEMS	LESSON 5.1 PRACTICE PROBLEMS	LESSON 5.1 PRACTICE PROBLEMS.
Resources		R STUDIO/CANVAS	R STUDIO/CANVAS	R STUDIO/CANVAS