Statistics - Grade Level
Year at a Glance (YAG)
2021-2022

First Semester		Second Semester	
1st Nine Weeks – 41 days (August 16th – October 13th) *(September 6th – Labor day – No School)* *(October 11th – Staff Development)*		**3rd Nine Weeks – 43 days** (January 3rd – March 4th) *(January 17th – MLK – No School)* *(February 21th – President's Day)* *(March 7th – 11th – Spring Break)*	
TEKS		**TEKS**	
C1.A, C1.E, C3.C, C4.A, C4.B, C4.C, C4.D, C4.E, C4.F	**Chapter 1: Analyzing One-Variable Data (9)** Students will classify and summarize data, display categorical data, display quantitative data in dotplots, stemplots, and histograms, measure center, measure variability, summarize quantitative data with boxplots and outliers, and describe location in a distribution.	C1.A, C1.D, C1.G, C2.D, C3.D, C5.D	**Chapter 6: Sampling Distributions (6)** Students will learn what a sampling distribution is, use center and variability with sampling distributions, find probabilities involving a sample count, proportion, and mean, and use the central limit theorem.
C1.A, C1.C, C1.E, C1.F, C3.A, C3.B, C7.A, C7.B, C7.C, C7.D, C7.E, C7.F	**Chapter 2: Analyzing Two-Variable Data (7)** Students will display relationships between two categorical and two quantitative variables, estimate and interpret correlation, calculate correlation, make predictions, use a regression line, calculate the equation of the Least-Squares Regression line, assess a regression model, and fit models to curved relationships.	C1.A, C1.B, C6.A, C6.B, C6.C, C6.D, C6.E	**Chapter 7: Estimating a Parameter (6)** Students will interpret, build, and use a confidence interval, interpret confidence level and margin of error, estimate a proportion, create confidence intervals for a proportion, estimate a mean, and create confidence intervals for a mean.
C1.A, C1.C, C2.A, C2.B, C2.C, C2.E, C2.F, C2.G	**Chapter 3: Collecting Data (8)** Students will ask statistical questions, distinguish between sampling poorly and sampling well, choose a Simple Random Sample. estimate a margin of error, explore sampling and surveys, and learn about observational studies and experiments.	C1.A, C1.B, C1.C, C6.F, C6.G, C6.H, C6.I, C6.J	**Chapter 8: Testing a Claim (6)** Students will state hypotheses, interpret p-values, make conclusions, determine statistical significance, test a claim about a proportion, use significance tests for a proportion, test a claim about a mean, and use significance tests for a mean.
2nd Nine Weeks – 42 days (October 14th – December 17th) *(November 22nd – 26th – Thanksgiving Break)* *(December 20th – 31th – Holiday Break)*		**4th Nine Weeks – 51 days** (March 14th – May 25th) *(April 8th – Battle of Flowers – No School)* *(April 15th – Good Friday – No School)* *(May 30th – Memorial Day – No School)*	
TEKS		**TEKS**	
C1.A, C1.C, C1.D, C1.E, C1.G, C5.A, C5.B, C5.C	**Chapter 4: Probability (7)** Students will explore ideas of randomness, probability, and simulation, use basic probability rules, use two-way tables and venn diagrams, find and interpret conditional probability, determine independence, apply the general multiplication rule, use tree diagrams, calculate probabilities with the multiplication rule for independent events, use the multiplication counting principle, calculate permutations, compute the number of combinations, and use combinations to calculate probabilities.	C1.A, C1.B, C1.C, C6.I	**Chapter 9: Comparing Two Populations of Treatments (7)** Students will estimate and test a claim about a difference between two proportions, estimate and test a claim about a difference between two means, analyze paired data, and test a claim about a mean difference.
C1.A, C1.C, C1.D, C1.G, C5.A, C5.B, C5.C	**Chapter 5: Random Variables (8)** Students will differentiate between discrete and continuous random variables, analyze discrete binomial random variables, learn about and analyze binomial random variables, calculate binomial probabilities, explore continuous random variables, learn about the standard normal distribution, and calculate probabilities using the normal distribution.	C1.A, C1.B, C1.C, C1.F, C3.B, C6.E	**Chapter 10: Inference for Distributions and Relationships (7)** Students will test the distribution of a categorical variable, use chi-squared tests for goodness of fit, test the relationship between two categorical variables, use chi-square tests for association, test the relationship between two quantitative variables, and makes inferences for the slope of a least-squares regression line.
	Review Ch. 1-5 (5)	C1.A, C1.B, C1.C, C1.D, C1.E, C1.F, C1.G, C2.F	**End of Year Project (7)** **Review Ch. 6-10 (5)**

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Resources

1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks

Resources used throughout the school year:

Texas Gateway Study Edge Statistics: provide video lessons and student printable notes
https://www.texasgateway.org/book/study-edge-statistics

Texas Gateway Statistics online Statistics textbook available free of charge
https://www.texasgateway.org/book/tea-statistics

Stats-Medic Helpful website utilizing activities to support the 'Experience First, Formalize Later' instructional philosophy
https://www.statsmedic.com/intro-stats

Teacher created videos

Teacher created activities