Advanced Placement Statistics

Univariate Data	Data Display & Distribution	Data Analysis	Bivariate Data
1.01 Summarize distributions of univariate data by determining and interpreting measures of center, spread, position, boxplots, and effects of changing units on summary measures. 1.02 Analyze distribution of continuous univariate data (both normal and non-normal).	2.01 Construct and interpret graphical displays of univariate data 2.02 Compare distributions among sets of univariate data.	3.01 Analyze categorical data. 3.02 Use and compare methods of data collection. 3.03 Apply statistical principles and methods in sample surveys; identify difficulties. 3.04 Apply principles and methods in designed experiments; identify difficulties. 3.05 Apply concepts of probability to solve problems. 3.06 Use normal distributions as a model for distribution. a) Investigate the properties of the normal distribution. b) Use the table of standard normal distribution (Z). 3.07 Simulate sampling distributions. 3.08 Use simulations to develop an understanding of the Central Limit Theorem and its importance in confidence intervals and tests of significance. 3.09 Recognize, construct and interpret results using confidence intervals in the context of a problem. 3.10 Perform tests of significance and interpret results in the context of a problem.	4.01 Analyze bivariate data. a) Recognize and analyze correlation and linearity. b) Determine the least squares regression line. c) Create residual plots and identify outliers and influential points to analyze data. d) Use logarithmic and power transformations to analyze data.