

Know the following terms:

5-number summary	Mean	Resistant
Anecdote	Median	Sampling
Bias/non-bias	Mode	Skew (left/Right)
Blind	Modified Boxplot	SRS (Simple Random Sampling)
Blocking	Observational Study	Standard Deviation
Categorical variable	Observed Values (Two-way Table)	Standard Normal Curve (Z) (Mean of 0, St dev of 1)
Control	Outlier (Calculation)	Statistics
Double Blind	Parameter	Survey
Empirical Rule (68-95-99.7 Rule)	Placebo	Treatment
Expected Values (Two-way table)	Quantitative variable	Variability
Experiment	Randomization	Z-Scores
IQR	Range	

Know how to:

- Draw a Stem-and-Leaf Plot (side – by – side)
- Calculate all the values of the 5-number summary
- Calculate Range and IQR (InterQuartile Range)
- Calculate outliers from the 5-number summary ($Q1 - 1.5 * IQR$; $Q3 - 1.5 * IQR$)
- Draw a modified boxplot from the outlier calculation and five number summary)
- Estimate mean and standard deviation from a plot of a normal curve
mean at peak; Std dev is distance from mean to where curve changes concavity
- Calculate and compare Z-scores
- Use empirical rule to calculate percentages
- Know how to calculate Expected values in a Two-way Table ($R * C / T$)
- Know how to calculate conditional proportions
- Know how to draw a Bar graph from a two-way table.