Statistics Pacing Guide

       Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The major themes in Statistics include: interpreting categorical and quantitative data, conditional probability and other rules of probability, using probability to make decisions, and making inferences and justifying conclusions.

Quarter 1

Interpreting Categorical and Quantitative Data
       -Understand, represent, and use univariate data.
       -Understand, represent, and use bivariate data.

Quarter 2

Conditional Probability and the Rules of Probability
       -Understand and apply basic concepts of probability.
       -Use the rules of probability to compare probabilities of compound events in a uniform probability model.

Quarter 3

Using Probability to Make Decisions
       -Understand and use discrete probability distributions.
       -Understand the normal probability distribution.

Quarter 4

Making Inferences and Justifying Conclusions
       -Know the characteristics of well-defined studies.
       -Design and conduct a statistical experiment to study a problem, then interpret and communicate the outcomes.
       -Make inferences about population parameters based on a random sample from that population.
       -Understand and use confidence intervals. o Use distributions to make inferences about a data set.