

# Statistics      First Semester Curriculum

## Quarter 1

Overview of Statistics

Organize, interpret, and graph categorical data.

Organize, interpret, and graph quantitative data.

Measures of Central Tendency, Variation, and Position

Exploratory Data Analysis

## Quarter 2

Probability

Sample Spaces, Classical Probability, Empirical Probability, Subjective Probability

Addition Rules for Probability

Multiplication Rules for Probability

Conditional Probability

Counting Rules

Fundamental Counting Rule, Factorials, Permutations, and DisCombinations

Probability and Counting Rules

Discrete Probability

Probability Distributions

Mean, Variance, Standard Deviation, and Expected Values

Binomial Distribution

Geometric Distribution

Poission Distribution