



Statistics

Course Description: The primary aim for this course is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. It includes measures of central tendency, measures of variability, grouped data, the normal distributions, central limit theorem, hypothesis testing, estimation, T-distributions, and Chi-square test.

Learning Targets

Domain: Exploring and Understanding Data

Priority Standard: The student will become familiar with the terms of statistics and be able to represent statistical data.

- The student will understand and apply the terminology of Statistics
- The student will represent Categorical Data by pie charts and bar graphs
- The student will represent and interpret quantitative data
- The student will determine and distinguish between what is normal

Domain: Explore Relationships Between Variables

Priority Standard:

- The student will be able to represent data involving two variables
- The student will be able to determine how to represent data linearly or exponentially and utilize the r-score

Domain: Gathering Data

Priority Standard: The student will go through the various ways to collect data, then determine which method is the best to use determining the circumstances.

- The student will be able to determine how to take samples and determine what method to use
- The student will determine the differences between observational studies and experiments
- The student will determine and apply randomness

Domain: Randomness and Probability

Priority Standard: By using various probability rules, the student will be able to represent their data by using probability models.

- The student will determine how many ways an event can happen by using factorials, permutations, and combinations
- The student will determine the probability of an event
- The student will utilize the rules of probability
- The student will set up and apply probability models

Learning targets will be assessed throughout the year with chapter assessments.

Any questions regarding these learning targets will be referred to the High School Principal.