Beaverton School District
High School - Statistics

It is essential that the high school mathematics content standards be addressed in contexts that promote problem solving, reasoning, communication, making connections, and designing and analyzing representations. Students will also be expected to reflect on their solution(s). Every student should understand and apply all mathematical concepts and skills from previous grade levels as they apply to these standards.

H.1S Data Analysis: Analyze and interpret empirical data.

- H.1S.1 Given a context, determine appropriate survey methods, analyze the strengths and limitations of a particular survey, observational study, experiment, or simulation, and the display of its data.
- H.1S.2 Evaluate data-based reports by considering the source of the data, the design of the study, and the way the data was analyzed and displayed.
- H.1S.3 Compare and draw conclusions about two or more data sets using graphical displays or central tendencies and range.
- H.1S.4 Use or construct a scatter plot for a given data set, determine whether there is a (n) linear, quadratic, exponential, or no trend. If linear, determine if there is a positive or negative correlation among the data; and, if appropriate, sketch a line of best fit, and use it to make predictions.
- H.1S.5 Construct, analyze, and interpret tables, scatter plots, frequency distributions, and histograms of data sets.

H.2S Probability: Apply basic principles of probability.

- H.2S.1 Identify, analyze, and use experimental and theoretical probability to estimate and calculate the probability of simple events.
- H.2S.2 Determine the sample space of a probability experiment.
- H.2S.3 Compute and interpret probabilities for independent, dependent, complementary, and compound events using various methods (e.g., diagrams, tables, area models, and counting techniques).