

# ESK 1 Statistical Analysis

<b>Unit Topic</b>	Statistical Analysis
<b>Key Learning</b>	Exposure to different types of data analysis
<b>Unit Essential Question</b>	How do I conduct a survey and what is the appropriate method to analyze and present the data?

## Lab: Taste Test Survey

### Lesson 1: Sampling and Bias

- I can determine the who makes up a sample and the population
- I can determine sampling methods
- I can identify potential bias in sampling
- I can distinguish misleading data

## Lab: NFL Statistics

### Lesson 2: Data Analysis

- I know how to find the mean of the data set.
- I know how to find the median of the data set.
- I know how to find the mode of the data set.
- I know how to find the range of the data set.
- I know how to find outliers of the data set.

### Lesson 3: Box Plot

- I know how to read a box plot.
- I know how to create a box plot.
- I know how to find the Interquartile Range.

### Lesson 4: Histogram

- I can read a histogram.
- I can determine intervals.
- I can calculate frequencies.
- I can scale my graph to create a Histogram.

### Lesson 5: Scatter plot (line of best fit)

- I can create a Scatter Plot
- I can determine Causation and/or Correlation based on a data set.
- I can create a line of best fit to predict data that is not presented
- I can create a line Plot.
- I can predict data that is not presented on a scatter plot.

## Lab: Dice Probability

### Lesson 6: Probability

- I can to identify the probability of a particular event happening.

## Performance Task: Student Survey

Student Initial: \_\_\_\_\_ Parent Initial: \_\_\_\_\_

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