Unit 4 Statistics & Data Analysis

Content Area: **Special Education**
Course(s):
Time Period: **December**
Length: **6 weeks**
Status: **Published**

Enduring Understandings

The results of a statistical analysis of an investigation can be used to support or refute an argument.

The message that a statistical analysis sends depends on the display.

Data analysis and misleading statistics are parts of the world around us.

Essential Questions

How can the collection, organization, interpretation, and display of data be used to answer questions?

How can the representation of data influence decisions?

How do you know when a conclusion is reasonable?

How can the results of a statistical investigation be used to support an argument?

How does this apply to the media advertising or political campaigns?

Content

Vocabulary

Mean

Median

Mode

Range

Inter-quartile Range

Frequency table

Box and whisker plot

Skills

Calculate mean, median, mode, range, and inter-quartile range given data in tables or lists.

Create and interpret frequency tables.

Interpret box-and-whisker plots.

Create appropriate data displays.

Examine and create misleading data displays.

Recognize possible associations and trends in the data.

Resources

Standards

CCSS: Mathematics

CCSS: Grade 6

Statistics & Probability

6.SP.A. Develop understanding of statistical variability.

6.SP.A.2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.

6.SP.A.3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.

6.SP.B. Summarize and describe distributions.

6.SP.B.4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.

MA.6.SP	Statistics and Probability
MA.6.SP.A	Develop understanding of statistical variability.
MA.6.SP.B	Summarize and describe distributions.
MA.6.SP.B.5a	Reporting the number of observations.