

# Unit 4 Statistics & Data Analysis

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

## **Enduring Understandings**

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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**

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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**

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### **Vocabulary**

Mean

Median

Mode

Range

Inter-quartile Range

Frequency table

Box and whisker plot

## **Skills**

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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**

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## **Standards**


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**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.