

# Alg2H Unit 10 (Chapter 11): Statistics

Content Area: **Math**  
Course(s): **Level 1 Engineering Drawing, Algebra 2 CP, Algebra 2 A, Algebra 2 H**  
Time Period: **Marking Period 4**  
Length: **4 weeks**  
Status: **Published**

## Unit Introduction

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## Standards

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MA.S-IC.B.3	Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.
MA.S-IC.B.4	Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.
MA.S-IC.B.6	Evaluate reports based on data.
MA.S-ID.A.1	Represent data with plots on the real number line (dot plots, histograms, and box plots).

## Essential Questions

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- How are measures of central tendency different from standard deviation?

## Content

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- Concept Byte - Margin of Error (pg. 746)
- Sec 11.6 - Analyzing Data (pg. 711)
- Sec 11.8 - Samples and Surveys (pg. 725)
- Supplementary - Hypothesis Testing with 2 Variables
- Supplementary - Population Proportion

## Skills

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- Calculate measures of central tendency
- Calculate population proportion
- Calculate the margin of error
- Compare and contrast different survey methods
- Determine outliers
- Understand different sampling techniques

