

Alg2CP 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

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

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

Content

- Concept Byte - Margin of Error (pg. 746)
- Sec 11.10 - Normal Distributions (pg. 739)
- Sec 11.6 - Analyzing Data (pg. 711)
- Sec 11.7 - Standard Deviation (pg. 719)
- Sec 11.8 - Samples and Surveys (pg. 725)
- Supplementary - Hypothesis Testing with 2 Variables
- Supplementary - Population Proportion

Skills

- Apply the Empirical Rule
- Calculate measures of central tendency
- Calculate percentiles
- Calculate population proportion
- Calculate standard deviation

- Calculate the margin of error
- Compare and contrast different survey methods
- Determine outliers
- Understand different sampling techniques