

Integrated Alg2 PreCalc Unit 03: Probability & Statistics

Content Area: **Math**
Course(s): **Integrated Algebra II & PreCalculus**
Time Period: **Semester 1**
Length: **2.5 cycles**
Status: **Published**

Unit Introduction

Standards

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

- Analyzing Data
- Concept Byte - Margin of Error
- Hypothesis Testing with 2 Variables
- Population Proportion
- Samples and Surveys

Skills

- 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

