# 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-ID.A.1	Represent data with plots on t	the real number line (	(dot plots, histograms, and box plots).

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.

## **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