

# The Correlation of PLATO® instructional curricula to California Academic Content Standards (CACCS)

## Mathematics

### Grade 8–12

### Probability and Statistics

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PLATO Learning Correlation to the California Academic Content Standards

## INTRODUCTION

PLATO Learning, Inc. combines PLATO® computer-assisted instruction into a flexible, integrated learning system to enhance instructional effectiveness in education programs. This document identifies PLATO® instructional activities that correlate to the California Academic Content Standards, Mathematics, Grade 8–12, Probability and Statistics.

It is recommended that instructors review the correlation in order to fine-tune the activity to fit their educational environment. Modules may be added or removed; web sites and offline activities may also be incorporated to enhance the learning path.

The following PLATO® courseware was used in this alignment:

- PLATO® Algebra 1, Part 1 and 2
- PLATO® Algebra 2, Part 1 and 2
- PLATO® Geometry and Measurement 1 and 2
- PLATO® Trigonometry
- PLATO® Calculus 1 and 2
- PLATO® Quality Fundamentals

PLATO Learning, Inc. looks forward to supporting your initiatives in providing successful educational programs using PLATO® computer-based lessons.

**1.0 Students know the definition of the notion of independent events and can use the rules for addition, multiplication, and complementation to solve for probabilities of particular events in finite sample spaces.**

**PLATO Algebra 1, Part 1**

- Special Topics
- Probability and Possible Outcomes
- Probability of an Event
- Solving Problems with Probability

**PLATO Algebra 2, Part 1**

- Probability
- Chance Experiments and Probability
- Determining the Probability of an Event
- Multiplication Principle of Counting
- Review: Probability

**3.0 Students demonstrate an understanding of the notion of discrete random variables by using them to solve for the probabilities of outcomes, such as the probability of the occurrence of five heads in 14 coin tosses.**

**PLATO Quality Fundamentals**

- Data Collection
- Setting the Stage for Data Collection

**4.0 Students are familiar with the standard distributions (normal, binomial, and exponential) and can use them to solve for events in problems in which the distribution belongs to those families.**

**PLATO Quality Fundamentals**

- Charting and Graphing
- Basic Statistics

**5.0 Students determine the mean and the standard deviation of a normally distributed random variable.**

**PLATO Quality Fundamentals**

- Charting and Graphing
- Basic Statistics

**6.0 Students know the definitions of the mean, median, and mode of a distribution of data and can compute each in particular situations.**

**PLATO Algebra 1, Part 1**

- Special Topics
- Mean, Median, and Mode
- Solving Problems with Mean, Median, and Mode

**PLATO Quality Fundamentals**

- Charting and Graphing
- Basic Statistics

**7.0 Students compute the variance and the standard deviation of a distribution of data.**

**PLATO Quality Fundamentals**

- Charting and Graphing
- Interpreting Histograms
- Basic Statistics