# Correlation of PLATO® Course to Idaho Achievement Standards (IAS)

# Mathematics

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**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® Algebra 2 Course's instructional activities that correlate to the Idaho Achievement Standards , Mathematics. URL: http://www.sde.state.id.us/dept/standards.asp.

If PLATO Courses are not available for the specific learning expectation, the PWLN Management Tool can incorporate district supplemental materials and websites to address the objective.

The following PLATO® Course was used in this correlation report:

**PLATO® Course Algebra 2, Semester A**
**PLATO® Course Algebra 2, Semester B**

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

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## ID PLATO Course Algebra 2

### Standard 3: Concepts and Language of Algebra and Functions

#### Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.

**10.M.3.1.1 Represent mathematical relationships using variables, expressions, linear equations and inequalities. (350.01.a)**

**PLATO Courses are not available for this learning expectation.**

#### Goal 3.2: Evaluate algebraic expressions.

**10.M.3.2.1 Use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, and rational numbers. (350.02.a)**

**PLATO® Course Algebra 2, Semester A**
**Unit 1 - Rational Expressions**
**Evaluating Rational Expressions (Alg 2.1)**

**PLATO® Course Algebra 2, Semester B**
**Unit 1 - Rational Expressions, Factoring, Equations, Inequalities**
**Simplifying Algebraic Expressions (Alg 2.2)**

#### Goal 3.3: Solve algebraic equations and inequalities.

**10.M.3.3.1 Use appropriate procedures to solve multi-step, first-degree equations and inequalities; such as 3(2x – 5) = 5x + 7 or 3(2x – 5) > 5x + 7. (350.03.a)**

**PLATO® Course Algebra 2, Semester B**
**Unit 1 - Rational Expressions, Factoring, Equations, Inequalities**
**Graphing Linear Inequalities in 1 Variable (Alg 2.2)**

**10.M.3.3.2 Differentiate between linear and non-linear equations and graphs.**

**PLATO® Course Algebra 2, Semester B**
**Unit 2 - Conic Sections, Functions, and Special Topics**
**Solving Problems with Linear Functions (Alg 2.2)**

#### Goal 3.4: Solve simple linear systems of equations.

**10.M.3.4.1 Use appropriate procedures to solve linear systems of equations involving two variables; such as x + y = 7 and 2x + 3y = 21. (350.04.a)**

**PLATO® Course Algebra 2, Semester A**
**Unit 3 - Systems, Probability, and Vectors**
**Solving Linear Systems of Equations: Graphs (Alg 2.1)**

**Solving Linear Systems of Inequalities: Graphs (Alg 2.1)**

**Solving Problems with Linear Systems (Alg 2.1)**

**Review: Linear Systems (Alg 2.1)**

#### Goal 3.5: Understand the concept of functions.

**10.M.3.5.1 Given graphs, charts, ordered pairs, mappings, or equations, determine whether a relation is a function.**

**PLATO® Course Algebra 2, Semester B**
**Unit 2 - Conic Sections, Functions, and Special Topics**
**Defining a Function with Its Rule (Alg 2.2)**

**Finding Values of a Function Using Its Rule (Alg 2.2)**

**Equations and Graphs of Functions, Part 1 (Alg 2.2)**

**10.M.3.5.2 Evaluate functions written in functional notation.**

**PLATO® Course Algebra 2, Semester B**
**Unit 2 - Conic Sections, Functions, and Special Topics**
**Finding Values of a Function Using Its Rule (Alg 2.2)**

**Translations and Transformations (Alg 2.2)**

**Functional Values (Alg 2.2)**

**Operations on Functions**

**Composite Functions (Alg 2.2)**

**10.M.3.5.3 Given a function, identify domain and range.**

**PLATO® Course Algebra 2, Semester B**
**Unit 2 - Conic Sections, Functions, and Special Topics**
**Composite Functions (Alg 2.2)**

**Domain Values of Composite Functions (Alg 2.2)**

## Goal 3.6: Apply functions to a variety of problems.

**10.M.3.6.1 Model and solve real-world phenomena using multi-step, first degree, single variable equations and inequalities, linear equations, and two-variable linear systems of equations. (353.01.a)**

**PLATO® Course Algebra 2, Semester A**
**Unit 3 - Systems, Probability, and Vectors**
**Solving Problems with Linear Systems (Alg 2.1)**

**Review: Linear Systems (Alg 2.1)**

**PLATO® Course Algebra 2, Semester B**
**Unit 1 - Rational Expressions, Factoring, Equations, Inequalities**
**Graphing Linear Inequalities in 1 Variable (Alg 2.2)**

**Unit 2 - Conic Sections, Functions, and Special Topics**
**Equations and Graphs of Functions, Part 2 (Alg 2.2)**

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**Composite Functions (Alg 2.2)**

**Solving Problems with Linear Functions (Alg 2.2)**

**10.M.3.6.2 Use graphs and sequences to represent and solve problems. (347.02.b)**

**PLATO® Course Algebra 2, Semester A**
**Unit 2 - Coordinate Plane**
**Graphing a Linear Equation in 2 Variables (Alg 2.1)**

**Using the Slope and y-Intercept to graph a Line (Alg 2.1)**

**Identifying Graphs from Their Equations (Alg 2.1)**

**Review: Graphs (Alg 2.1)**

**Unit 3 - Systems, Probability, and Vectors**
**Solving Linear Systems of Equations: Graphs (Alg 2.1)**

**Solving Problems with Linear Systems (Alg 2.1)**

**Review: Linear Systems (Alg 2.1)**

**PLATO® Course Algebra 2, Semester B**
**Unit 2 - Conic Sections, Functions, and Special Topics**
**Equations and Graphs of Functions, Part 2 (Alg 2.2)**

**Translations and Transformations (Alg 2.2)**

**Solving Problems with Linear Functions (Alg 2.2)**

**Unit 3 - Special Functions, Complex Numbers, and Sequences and Series**
**Introduction to Sequences and Series**

**Arithmetic Sequences and Series**