



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

## Mathematics

April 21, 2006

### 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 I 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 I, Semester A**  
**PLATO® Course Algebra I, 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 I

### Grade 09

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

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

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

**PLATO® Course Algebra I, Semester A**

**Unit 1 - Rational Numbers, Exponents, and Square Roots**

**Using Basic Number Ideas (Alg 1.1)**

**Unit 2 - Percents and Expressions**

**Expressions in 1 Variable (Alg 1.1)**

**Expressions in 2 or More Variables (Alg 1.1)**

**Unit 3 - Linear and Quadratic Equations**

**Literal Equations (Alg 1.1)**

**Using Linear Equations to Solve Problems (Alg 1.1)**

**PLATO® Course Algebra I, Semester B**

**Unit 3 - Linear Equations, Linear Inequalities, and Quadratics**

**Solving Problems with Linear Equations in 1 Variable (Alg 1.2)**

##### Goal 3.2: Evaluate algebraic expressions.

9.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 I, Semester A**

**Unit 2 - Percents and Expressions**

**Expressions in 1 Variable (Alg 1.1)**

**Adding Monomials (Alg 1.1)**

**Subtracting Monomials (Alg 1.1)**

**Adding Binomials and Monomials (Alg 1.1)**

**Subtracting Binomials and Monomials (Alg 1.1)**

**PLATO® Course Algebra I, Semester B**

**Unit 2 - Polynomials and Factoring**

**Polynomial Sum (Alg 1.2)**

**Polynomial Difference (Alg 1.2)**

**Simplifying Polynomial Expressions (Alg 1.2)**

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

9.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 I, Semester B**

**Unit 3 - Linear Equations, Linear Inequalities, and Quadratics**

**More Difficult Linear Equations in 1 Variable (Alg 1.2)**

**Linear Inequalities in 1 Variable, Part 3 (Alg 1.2)**

**Review: Equations and Inequalities (Alg 1.2)**

9.M.3.3.2 Differentiate between linear and non-linear equations and graphs.

**PLATO® Course Algebra I, Semester A**  
**Unit 4 - Linear Relations, Systems, Functions, and Special Topics**  
**Linear Patterns (Alg I.1)**

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

9.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 I, Semester B**  
**Unit 3 - Linear Equations, Linear Inequalities, and Quadratics**  
**Solving Linear Systems Using Substitution**  
**Solving Linear Systems Using Linear Combinations**

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

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

**PLATO® Course Algebra I, Semester A**  
**Unit 4 - Linear Relations, Systems, Functions, and Special Topics**  
**Functions (Alg I.1)**  
**Determining Whether a Relation is a Function**  
**Describing Functions with Equations, Tables, and Graphs (Alg I.1)**

9.M.3.5.2 Evaluate functions written in functional notation.

PLATO Courses are not available for this learning expectation.

9.M.3.5.3 Given a function, identify domain and range.

**PLATO® Course Algebra I, Semester A**  
**Unit 4 - Linear Relations, Systems, Functions, and Special Topics**  
**Finding the Domain and Range of a Function**

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

9.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 I, Semester A**  
**Unit 3 - Linear and Quadratic Equations**  
**Literal Equations (Alg I.1)**  
**Using Linear Equations to Solve Problems (Alg I.1)**  
**Interpreting Graphs to Solve Problems (Alg I.1)**

**PLATO® Course Algebra I, Semester B**  
**Unit 3 - Linear Equations, Linear Inequalities, and Quadratics**  
**More Difficult Linear Equations in 1 Variable (Alg I.2)**  
**Solving Problems with Linear Equations in 1 Variable (Alg I.2)**  
**Review: Equations and Inequalities (Alg I.2)**

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

**PLATO® Course Algebra I, Semester A**  
**Unit 4 - Linear Relations, Systems, Functions, and Special Topics**  
**Solving Systems of Linear Inequalities by Graphing**  
**Patterns and Sequences (Alg I.1)**



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