



# The Correlation of PLATO Curricula to Idaho Content Standards

## Mathematics – Grade 03

January 13, 2009

### 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 Idaho Content Standards , Mathematics, Grade 03. URL: <http://www.sde.state.id.us/instruct/standards/>.

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 correlation report:

#### **Foundational Mathematics**

**Math Fundamentals**

**Math Expeditions B**

**Math Expeditions C**

**Math Expeditions D**

**Math Expeditions E**

**Math Expeditions F**

**Projects for the Real World, Level B**

**Projects for the Real World, Level C**

**Projects for the Real World, Level D**

**Projects for the Real World, Level G**

**Projects for the Real World, Level H**

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

Inspired solutions for teaching and learning™



## **Standard I: Number and Operation**

### **Goal I.1: Understand and use numbers.**

#### **3.M.1.1.1 Read, write, compare, and order whole numbers to 10,000. (287.01.a)**

##### Math Fundamentals

Basic Number Ideas - Beginning

Whole Numbers 0-9

Whole Numbers 0-9 Review

Whole Numbers 10-99

Numbers 10-999 Review

##### Math Expeditions C

Numeration C - Compare

Compare numbers through 99

Numeration C - Order

Order numbers through 99

Order numbers through 999

Money C - Money

Compare money to \$2.00

##### Math Expeditions D

Numeration D - Compare

Compare numbers to 999

Compare numbers to 9999

Numeration D - Order

Order numbers to 999

Order numbers to 9999

Numeration D - Place Value

Write standard form to 9999

Write standard form to 999,999

Number Operations D - Multiplication

Multiply with money

##### Math Expeditions E

Numeration E - Compare

Compare numbers to 999,999

Numeration E - Order

Order numbers to 999,999



Foundational Mathematics  
Understanding Whole Numbers 1  
Greater Than, Less Than, Equal To

**3.M.1.1.2 Identify place value through 9,999. (287.01.b)**

Math Fundamentals  
Basic Number Ideas - Beginning  
Hundreds and Thousands  
Millions/Billions and Trillions

Math Expeditions C  
Numeration C - Place Value  
Identify tens & ones to 99  
Write standard form to 99  
Write standard form to 999

Number Operations C - Subtraction  
Renaming readiness

Math Expeditions E  
Numeration E - Place Value  
Identify place value to millions

Foundational Mathematics  
Understanding Whole Numbers 2  
Understanding Place Value: Thousands  
Understanding Place Value: Millions, Billions, and Beyond

**3.M.1.1.3 Count the value of a collection of bills and coins up to \$10.00. (287.01.c)**

Math Expeditions C  
Money C - Money  
Compare money to \$2.00

Math Expeditions D  
Number Operations D - Multiplication  
Multiply with money

Projects for the Real World, Level B -- Money  
How to Save Money  
Solve Problems with Calculators

**3.M.1.1.4 Recognize, name, and represent commonly used fractions using concrete materials. (287.01.a)**

Math Fundamentals  
Fractions

Inspired solutions for teaching and learning™



- Meaning of Fractions
- Equivalent Fractions
- Comparing Fractions
- Basic Terms Review

- Ratio/Proportion/Percent
- Ratio Concepts

- Math Expeditions C
- Fractions C - Fractions
- Halves, thirds, fourths, tenths

- Math Expeditions D
- Fractions D - Fractions
- Equivalent fractions

- Foundational Mathematics
- Understanding Fractions
- Understanding Fractions: Equal Parts of an Object
- Understanding Fractions: Equal Parts of a Collection
- Fraction Notation: Numerator and Denominator

- Understanding Decimals
- Understanding Decimals: Tenths

- Working with Percent
- Understanding Percent

**3.M.1.1.5 Recognize mathematical information and select strategies appropriate for solving a multi-step problem. (288.01.a)**

- Math Fundamentals
- Division
- Problem Solving 3

- Projects for the Real World, Level D – Endangered Animals
- People Are Helping
- Raise Funds Endangered Animals
- Supporting Offline Activity – 2-Step Story Problems (located on <http://support.plato.com> )

**3.M.1.1.6 Use appropriate vocabulary. (287.01.f)**

PLATO Modules use common, grade-level appropriate vocabulary in each activity and provide glossaries for additional assistance in defining unknown words.



**Goal 1.2: Perform computations accurately.**

**3.M.1.2.1 Recall basic addition and subtraction facts through 18.  
(287.02.b)**

Math Fundamentals

Addition

Addition Facts 1

Addition Facts 2

Subtraction

Subtraction Facts

Subtraction Skills 1

Subtraction Review

Math Expeditions C

Number Operations C - Addition

Add two numbers with sums to 10

Add two numbers with sums to 12

Add two numbers with sums to 18

Number Operations C - Subtraction

Subtract numbers through 12

Subtract numbers through 18

Math Expeditions D

Number Operations D - Addition

Add two numbers with sums to 18

Number Operations D - Subtraction

Subtract numbers 13 to 18

Math Expeditions E

Number Operations E - Subtraction

Subtract numbers 13-18

Foundational Mathematics

Course: Understanding Addition and Subtraction I: Module: Finding the Missing Number in Addition

Understanding Addition and Subtraction I

Finding the Missing Number in Subtraction

Adding and Subtracting Whole Numbers I

Adding 0 through 2: Addition Basic Facts

Adding 3 through 9: Addition Basic Facts

Subtraction Basic Facts



### **3.M.1.2.2 Add and subtract whole numbers with and without regrouping through 999. (287.02.a)**

#### Math Fundamentals

##### Addition

- Addition Skills 1
- Addition Skills 2
- Addition Skills 3
- Addition Skills 4
- Addition Review

##### Subtraction

- Subtraction Skills 1
- Subtraction Skills 2
- Subtraction Skills 3
- Subtraction Skills 4
- Subtraction Review

#### Math Expeditions C

##### Number Operations C - Addition

- Add three numbers with sums to 12
- Add three numbers with sums to 18
- Add two 2-digits
- Add two 2-digits using money

##### Number Operations C - Subtraction

- Renaming readiness
- Subtract 2-digit numbers
- Subtract multiples of 10
- Subtract two 2-digits
- Subtract with money
- Subtract 3-digit numbers

#### Math Expeditions D

##### Number Operations D - Addition

- Add three 1-digit numbers to 18
- Add two 2-digit numbers
- Add three or more 1-digit numbers
- Add two 2, 3, or 4-digit numbers

##### Number Operations D - Subtraction

- Subtract 2 digit from multiples of 10
- Subtract two 2-digit numbers
- Subtract 3-digit numbers
- Subtract 4-digit numbers



Math Expeditions E

Number Operations E - Addition

Use mental math to add

Add two or more numbers

Number Operations E - Subtraction

Subtract 2 or 3-digit numbers

Subtract 4 or 5-digit numbers

Foundational Mathematics

Adding and Subtracting Whole Numbers I

Adding Two 2-Digit Numbers: Sums Less Than 100

Subtracting Two 2-Digit Numbers

Adding Two 2-Digit Numbers: Sums Greater Than 99

Course: Adding and Subtracting Whole Numbers 2: Module: Adding Multi-Digit Numbers

Course: Adding and Subtracting Whole Numbers 2: Module: Subtracting Multi-Digit Numbers with Consecutive Regrouping

Course: Adding and Subtracting Whole Numbers 2: Module: Subtracting across Zeros

**3.M.1.2.3 Add three one- and two- digit addends. (287.02.c)**

Math Fundamentals

Addition

Addition Skills 4

Addition Review

Math Expeditions D

Number Operations D - Addition

Add three or more 2-digit numbers

Math Expeditions E

Number Operations E - Addition

Add two or more numbers

Foundational Mathematics

Adding and Subtracting Whole Numbers I

Adding Three or Four Numbers

**3.M.1.2.4 Multiply whole numbers through 10 x 10. (287.02.d)**

Math Fundamentals

Multiplication

Multiplication Facts 1

Multiplication Facts 2



Multiplication Properties 2  
Multiplication Skills 1

Math Expeditions C  
Number Operations C - Multiplication  
Multiply by twos  
Multiply by threes  
Multiply by fours  
Multiply by fives

Math Expeditions D  
Number Operations D - Multiplication  
Multiply with zero through five  
Multiply with fives and sixes  
Multiply with sevens and eights  
Multiply with nines

Math Expeditions E  
Number Operations E - Multiplication  
Multiply with zero through five  
Multiply with fives and sixes  
Multiply with sevens and eights  
Multiply with nines

Foundational Mathematics  
Understanding Multiplication  
Understanding Multiplication as Repeated Addition  
  
Multiplying Whole Numbers  
Multiplying by 0 through 5: Multiplication Basic Facts  
Multiplying by 6 through 10: Multiplication Basic Facts

**3.M.1.2.5 Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three. (287.02.f)**

PLATO Modules are not available for this learning expectation.

**3.M.1.2.6 Use appropriate operations to solve word problems and show or explain work. (288.01.b)**

Math Fundamentals  
Multiplication  
Problem Solving 2  
  
Division  
Problem Solving 3



Fractions  
Problem Solving 4

Decimals  
Problem Solving 5

Ratio/Proportion/Percent  
Problem Solving 6

Geometry and Measurement  
Problem Solving 7

Projects for the Real World, Level D – Problem Solving  
Let’s Make a Deal  
Split the Difference

Projects for the Real World, Level D – Smart Shopper  
Be a Smart Shopper  
Think Before You Buy

**3.M.1.2.7 Use appropriate vocabulary. (287.02.g)**

PLATO Modules use common, grade-level appropriate vocabulary in each activity and provide glossaries for additional assistance in defining unknown words.

**Goal 1.3: Estimate and judge reasonableness of results.**

**3.M.1.3.1 Estimate to predict sums and differences. (287.03.a)**

Math Expeditions D  
Number Operations D - Addition  
Estimate sums

Number Operations D - Subtraction  
Estimate differences

Math Expeditions E  
Number Operations E - Addition  
Estimate sums

Number Operations E - Subtraction  
Estimate differences

**3.M.1.3.2 Use estimation to evaluate the reasonableness of a sum or difference. (287.03.b)**

Math Expeditions D  
Number Operations D - Addition  
Estimate sums



Number Operations D - Subtraction  
Estimate differences

Math Expeditions E  
Number Operations E - Addition  
Estimate sums

Number Operations E - Subtraction  
Estimate differences

**3.M.1.3.3 Investigate the use of a four-function calculator to solve complex grade-level problems. (288.03.a)**

Projects for the Real World, Level D - Body  
Your Skeleton  
Count the Bones

**3.M.1.3.4 Use appropriate vocabulary. (287.03.c)**

PLATO Modules use common, grade-level appropriate vocabulary in each activity and provide glossaries for additional assistance in defining unknown words.

**Standard 2: Concepts and Principles of Measurement**

**Goal 2.1: Understand and use U.S. customary and metric measurements.**

**3.M.2.1.1 Select and use appropriate units and tools to make formal measurements of length and temperature in both systems. (289.01.a)**

Math Fundamentals  
Geometry and Measurement  
Linear Measurement  
Measurement Review

Math Expeditions C  
Measurement C - Time  
Tell time to 5 minutes

Measurement C - Length  
Identify units of length

Measurement C - Mass, Weight  
Metric units of mass

Math Expeditions D  
Measurement D - Length  
Identify units of length

Measurement D - Capacity  
Identify units of temperature



Math Expeditions E  
Measurement E - Length  
Metric units of length  
Measurement E - Capacity  
Metric units capacity, mass

Foundational Mathematics  
Measurement  
Measuring Length: Metric Units  
Measuring Length: Customary Units  
Measuring Temperature: Fahrenheit  
Measuring Temperature: Celsius

**3.M.2.1.2 Estimate length, time, and weight in real-world problems using standard units. (289.01.b)**

Math Fundamentals  
Geometry and Measurement  
Linear Measurement  
Measurement Review

Math Expeditions C  
Measurement C - Length  
Identify units of length  
Measurement C - Mass, Weight  
Metric units of mass

Math Expeditions D  
Measurement D - Length  
Identify units of length

Math Expeditions E  
Measurement E - Length  
Metric units of length  
Measurement E - Capacity  
Metric units capacity, mass

Foundational Mathematics  
Measurement  
Measuring Length: Metric Units  
Measuring Length: Customary Units

Projects for the Real World, Level C – Keeping Healthy  
Rest and Relaxation  
See How Much Sleep You Get



**3.M.2.1.3 Tell time using digital and analog clocks using quarter hour and five minute intervals. (289.01.e)**

Math Expeditions C  
Time C - Time  
Tell time to 5 minutes

**3.M.2.1.4 Solve real world problems related to time.**

Math Fundamentals  
Subtraction  
Problem Solving 1  
Multiplication  
Problem Solving 2  
Division  
Problem Solving 3  
Fractions  
Problem Solving 4  
Decimals  
Problem Solving 5  
Ratio/Proportion/Percent  
Problem Solving 6  
Geometry and Measurement  
Problem Solving 7

**3.M.2.1.5 Identify relationships of length and time within the U.S. customary system and within the metric system. (289.01.c, 289.01.d)**

Math Expeditions C  
Measurement C - Length  
Identify units of length  
Measurement C - Mass, Weight  
Metric units of mass  
Measurement C - Capacity  
Identify units of capacity  
Math Expeditions D  
Measurement D - Length  
Identify units of length  
Math Expeditions E  
Measurement E - Length  
Metric units of length



Measurement E - Capacity  
Metric units capacity, mass

Projects for the Real World, Level G – Yellowstone Connection  
Hot Spots in Time  
Hot Spots Through Time

**3.M.2.1.6 State that there are 24 hours in a day, 7 days in a week, and 12 months in a year.**

Math Expeditions D  
Time D - Time  
Solve problems

**3.M.2.1.7 Use appropriate vocabulary.**

PLATO Modules use common, grade-level appropriate vocabulary in each activity and provide glossaries for additional assistance in defining unknown words.

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

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

**3.M.3.1.1 Write a multiplication problem vertically and horizontally. (290.01.a)**

Math Fundamentals  
Subtraction  
Problem Solving 1

Multiplication  
Meaning of Multiplication  
Problem Solving 2

Division  
Problem Solving 3

Math Expeditions D  
Number Operations D - Multiplication  
Multiply with zero through five

Foundational Mathematics  
Course: Adding and Subtracting Whole Numbers 2: Module: Solving Addition and Subtraction Story Problems

Multiplying Whole Numbers  
Solving Multiplication Story Problems



Dividing Whole Numbers  
Solving Division Story Problems

**3.M.3.1.2 Write a number sentence using simple geometric shapes as symbols to represent an unknown number. (290.01.b)**

Math Fundamentals

Subtraction

Meaning of Subtraction

Projects for the Real World, Level B – Money

How to Save Money

How Much Money is Needed?

Solve Problems with Calculators

**3.M.3.1.3 Write a fact family when given two addends.**

Foundational Mathematics

Adding and Subtracting Whole Numbers 1

Subtraction Basic Facts

Understanding Addition and Subtraction 2

Addition and Subtraction Fact Families

Checking Subtraction by Addition

Dividing Whole Numbers

Division Basic Facts

**3.M.3.1.4 Read and use symbols ( $<$ ,  $>$ ,  $=$ ) to express relationships with numbers through 9,999. (290.01.c)**

Math Fundamentals

Basic Number Ideas - Beginning

Whole Numbers 0-9

Whole Numbers 0-9 Review

Whole Numbers 10-99

Math Expeditions C

Numeration C - Compare

Compare numbers through 99

Math Expeditions D

Numeration D - Compare

Compare numbers to 999

Compare numbers to 9999

Math Expeditions E

Numeration E - Compare

Compare numbers to 999,999

Inspired solutions for teaching and learning™



Decimals E - Decimals  
Compare, order & round decimals

Foundational Mathematics  
Understanding Whole Numbers I  
Greater Than, Less Than, Equal To  
Comparing Whole Numbers: 10 through 99

**Goal 3.2: Evaluate algebraic expressions.**

**3.M.3.2.1 Use the commutative property of multiplication. (290.02.a)**

Math Fundamentals  
Addition  
Addition Properties  
  
Multiplication  
Multiplication Properties I  
  
Math Expeditions C  
Number Operations C - Addition  
Add two numbers with sums to 18  
  
Foundational Mathematics  
Understanding Addition and Subtraction 2  
Using the Commutative Property of Addition  
  
Understanding Multiplication  
Using the Commutative Property of Multiplication

**3.M.3.2.2 Solve multiplication problems using the commutative property (e.g., If  $24 \times 38 = 912$ , then what is  $38 \times 24$ ?).**

Math Fundamentals  
Addition  
Addition Properties  
  
Multiplication  
Multiplication Properties I  
  
Math Expeditions C  
Number Operations C - Addition  
Add two numbers with sums to 18  
  
Foundational Mathematics  
Understanding Addition and Subtraction 2  
Using the Commutative Property of Addition  
  
Understanding Multiplication  
Using the Commutative Property of Multiplication



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

**3.M.3.3.I Solve missing addend equations. (290.03.a)**

Math Fundamentals

Addition

Addition Facts 1

Addition Facts 2

Subtraction

Subtraction Facts

Multiplication

Multiplication Facts 1

Multiplication Facts 2

Division

Division Facts

Division Skills 6

Division Review II

Foundational Mathematics

Course: Understanding Addition and Subtraction I: Module: Finding the Missing Number in Addition

Understanding Addition and Subtraction I

Finding the Missing Number in Subtraction

Adding and Subtracting Whole Numbers I

Adding 0 through 2: Addition Basic Facts

Adding 3 through 9: Addition Basic Facts

Subtraction Basic Facts

Understanding Multiplication

Finding the Missing Number in Multiplication

Multiplying Whole Numbers

Multiplying by 0 through 5: Multiplication Basic Facts

Multiplying by 6 through 10: Multiplication Basic Facts

Dividing Whole Numbers

Division Basic Facts

**Goal 3.4: Understand the concept of functions.**

**3.M.3.4.I Extend a growing arithmetic, numerical pattern when given a rule with a single operation of one digit addition (e.g., add 3). (293.01.a)**

Math Fundamentals

Fractions

Multiples and Common Denominators

Inspired solutions for teaching and learning™



Projects for the Real World, Level D – Books & More  
Make Some Books  
Make a Pattern Page

### **3.M.3.4.2 Use appropriate vocabulary. (293.01.c)**

PLATO Modules use common, grade-level appropriate vocabulary in each activity and provide glossaries for additional assistance in defining unknown words.

## **Standard 4: Concepts and Principles of Geometry**

### **Goal 4.1: Apply concepts of size, shape, and spatial relationships.**

#### **3.M.4.1.1 Identify, compare, and analyze attributes of two- and three-dimensional shapes, including right angles, squares, and three-dimensional shapes in environment, and develop vocabulary to describe the attributes.**

Math Fundamentals

Geometry and Measurement

Plane Figures I

Common 3-Dimensional Figures

Basic Figures Review

Math Expeditions C

Geometry C - Geometry

Identify plane shapes

Identify solid shapes

Math Expeditions E

Geometry E - Geometry

Classify points, lines & angles

Identify geometric shapes

Foundational Mathematics

Plane and Solid Figures

Introduction to Quadrilaterals

Introduction to Solid Figures

Using Geometry

Calculating the Area of Rectangles and Squares

Calculating the Area of Triangles

Calculating the Volume of a Rectangular Prism



### **3.M.4.1.2 Discuss sliding and flipping of two-dimensional shapes.**

- Math Expeditions G
  - Geometry G - Geometry
  - Identify congruent and similar
- Math Expeditions H
  - Geometry H - Geometry
  - Identify congruent and similar
- Math Expeditions I
  - Geometry I - Geometry
  - Identify congruent and similar

### **3.M.4.1.3 Identify vertical and horizontal lines of symmetry.**

- Math Fundamentals
  - Geometry and Measurement
  - Figure Comparison
  - Basic Figures Review
- Foundational Mathematics
  - Plane and Solid Figures
  - Line Symmetry in Plane Figures

### **3.M.4.1.4 Use appropriate vocabulary.**

PLATO Modules use common, grade-level appropriate vocabulary in each activity and provide glossaries for additional assistance in defining unknown words.

### **Goal 4.3: Apply graphing in two dimensions.**

#### **3.M.4.3.1 Identify the point of final destination given directions for movement on a positive number line.**

- Math Fundamentals
  - Addition
    - Meaning of Addition
  - Subtraction
    - Meaning of Subtraction
  - Fractions
    - Adding and Subtracting Fractions I
- Math Expeditions C
  - Numeration C - Round
  - Round numbers to nearest ten



Foundational Mathematics

Understanding Addition and Subtraction I

Understanding Addition: Number Line and Hundreds Chart

Understanding Subtraction: Number Line and Hundreds Chart

## **Standard 5: Data Analysis, Probability, and Statistics**

### **Goal 5.1: Understand data analysis.**

#### **3.M.5.1.1 Interpret information found in tables, bar graphs, and charts. (292.01.a)**

Math Expeditions D

Graphs D - Graphs

Solve problems: bar graph, pictograph

Math Expeditions E

Graphs E - Graphs

Data from graphs

#### **3.M.5.1.2 Use appropriate vocabulary. (292.01.c)**

PLATO Modules use common, grade-level appropriate vocabulary in each activity and provide glossaries for additional assistance in defining unknown words.

### **Goal 5.2: Collect, organize, and display data.**

#### **3.M.5.2.1 Collect, organize, and display data in tables, charts, or bar graphs in order to answer a question. (292.02.a)**

Math Expeditions D

Graphs D - Graphs

Solve problems: bar graph, pictograph

Math Expeditions E

Graphs E - Graphs

Data from graphs

Projects for the Real World, Level D – Smart Shopper

Who Wants You to Buy

Tell What Ads Are Aimed at Kids

Projects for the Real World, Level H – Maya Mystery

What's In a Bone?

Graph and Compare

Observe and Compare

### **Goal 5.5: Make predictions or decisions based on data.**

Inspired solutions for teaching and learning™



### **3.M.5.5.I Make predictions based on data.**

Projects for the Real World, Level C – Make a Collection  
About Collectors  
Read and Make Collection Graphs

Projects for the Real World, Level D – Problem Solving  
Make a Decision  
A Close Look at How Students Voted

Projects for the Real World, Level H – Maya Mystery  
What's In a Bone?  
Graph and Compare  
Observe and Compare