



The Correlation of PLATO® Curricula to the Idaho Content Standards

Grade 07 - Mathematics

December 12, 2008

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 : Grade 07, Mathematics, Grade 07. 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:

- Algebra 1, Part 1**
- Algebra 1, Part 2**
- Algebra 2, Part 1**
- Algebra 2, Part 2**
- Data Skills**
- Foundational Mathematics**
- Geometry 1**
- Geometry 2**
- Math Expeditions F**
- Math Expeditions G**
- Math Expeditions H**
- Math Expeditions I**
- Math Problem Solving**
- Miscellaneous Math Resource**
- PLATO Course Algebra 1**
- PLATO Course Algebra 2**
- PLATO Course Geometry**
- PLATO Course Pre-Algebra**
- Projects for the Real World G**
- Projects for the Real World H**
- Projects for the Real World I**
- Trigonometry Skills**

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

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Grade 07

Standard I: Number and Operation

Goal I.I: Understand and use numbers.

7.M.I.1.1 Compare magnitudes and relative magnitudes of rational numbers, including integers, fractions, and decimals. (327.01.a , 327.01.c)

Projects for the Real World G

PRW G - Olympic Games

What Shall I See?

Percents

Foundational Mathematics

Understanding Fractions

Understanding Fractions: Equal Parts of an Object

Understanding Fractions: Equal Parts of a Collection

Fraction Notation: Numerator and Denominator

7.M.I.1.2 Solve problems requiring the conversion between simple decimals, fractions, ratios, and percents. (327.01.b)

PLATO Course Pre-Algebra, Semester A

Unit 3 - Decimals

Fractions and Repeating Decimals

Unit 4 - Ratios and Proportions, Percents, and Measurement

Mental Math with Fractions and Percents (Pre-AlgA)

Projects for the Real World H

PRW H - Consumer Guide

Money Talks

Who Does What?

Math Expeditions G

Math Expeditions G - Everglades

Decimals G

Add and subtract decimals

Ratio/Proportion G

Decimals & fractions percents

Math Expeditions H

Math Expedition H - Arkansas Wildlife Refuge

Decimals H

Add and subtract decimals

Ratio/Proportion/% H

Decimals & fractions percents

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Math Expeditions I

Math Expeditions I - Philadelphia Archeology

Fractions I

Compare and order fractions

Decimals I

Add and subtract decimals

Ratio/Proportion/%

Decimals & fractions percents

Foundational Mathematics

Understanding Fractions

Finding Equivalent Fractions

Understanding Decimals

Understanding Decimals: Tenths

Relating Decimals, Fractions, and Mixed Numbers

Performing Operations with Decimals

Renaming a Fraction as a Decimal

Working with Percent

Understanding Percent

Relating Fractions, Decimals, and Percents

Understanding Ratio and Proportion

Equivalent Ratios

Algebra I, Part I

Basic Number Ideas - Algebra I, Part I

Mental Math with Fractions and Percents (AlgI.I)

Special Topics - Algebra I, Part I

Converting Percents Less than 1% to Decimals (AlgI.I)

Converting a Decimal to a Fraction of a Percent (AlgI.I)

Finding the Amount with Percents Less than 1% (AlgI.I)

Converting Percents Greater than 100% to Decimals (AlgI.I)

Converting a Number Greater than 1 to a Percent (AlgI.I)

**7.M.1.1.3 Locate the position of rational numbers on a number line.
(327.01.e)**

PLATO Course Geometry, Semester B v2.0

Unit I - Geometry of the Right Triangle and Right Triangle Trigonometry

Structures of Euclidean and Non-Euclidean Geometries

Math Expeditions G

Math Expeditions G - Everglades

Geometry G

Classify points, lines, angles

Math Expeditions H

Math Expedition H - Arkansas Wildlife Refuge

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- Geometry H
 - Classify points, lines & angle
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
- Geometry I
 - Classify points, lines & angle
- Foundational Mathematics
 - Plane and Solid Figures
 - Lines, Parts of Lines, and Angles
 - Lines in a Plane
- Geometry 2
 - Introduction to Geometry
 - Points, Lines, and Planes
 - Intersecting Lines and Planes

7.M.1.1.4 Rewrite multiple factors using exponents. (327.02.c)

- PLATO Course Pre-Algebra, Semester A
 - Unit 2 - Fractions
 - Finding Factors and Prime Factors
- PLATO Course Pre-Algebra, Semester B
 - Unit 1 - Integers
 - Exponents: Exponential Form (Pre-AlgB)
 - Exponents: Expanded Form (Pre-AlgB)
- Algebra I, Part I
 - Basic Number Ideas - Algebra I, Part I
 - Prime and Composite Numbers (AlgI.1)
 - Exponents: Exponential Form (AlgI.1)
 - Exponents: Expanded Form (AlgI.1)

7.M.1.1.5 Apply the number theory concepts of primes, composites, and prime factorization and find the Least Common Multiple (LCM) and the Greatest Common Factor (GCF). (327.01.d)

- PLATO Course Pre-Algebra, Semester A
 - Unit 2 - Fractions
 - Finding Factors and Prime Factors
 - Greatest Common Factors
- Foundational Mathematics
 - Understanding Multiplication
 - Finding Common Multiples and the Least Common Multiple
 - Understanding Fractions



Working with Common Denominators and the Least Common Denominator

Algebra I, Part I

Basic Number Ideas - Algebra I, Part I

Prime and Composite Numbers (AlgI.I)

Multiplying Common Fractions (AlgI.I)

Adding and Subtracting Fractions (AlgI.I)

7.M.I.1.6 Recognize pertinent information for problem solving. (328.01.b)

Math Problem Solving

Math Fundamentals: Math Problem Solving

Smart Shopping: Math Fundamentals: Math Problem Solving

PLATO Course Geometry, Semester A v2.0

Unit I - Geometry Basics, Points, Lines, Planes, and Angles

Problem Solving, Patterns, and Solutions

Algebra I, Part I

Basic Number Ideas - Algebra I, Part I

Using Basic Number Ideas (AlgI.I)

7.M.I.1.7 Describe the use of integers in real-world situations.

PLATO Course Pre-Algebra, Semester B

Unit I - Integers

The Additive Inverse of Integers (Pre-AlgB)

Word Problems with Integers

Algebra I, Part I

Basic Number Ideas - Algebra I, Part I

The Additive Inverse of Integers (AlgI.I)

7.M.I.1.8 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 1.2: Perform computations accurately.

7.M.1.2.1 Recall the common equivalent fractions, decimals, and percents of halves, fourths, and tenths.

PLATO Course Pre-Algebra, Semester A
Unit 3 - Decimals
Fractions and Repeating Decimals
Projects for the Real World H
PRW H - Consumer Guide
Money Talks
Who Does What?
Math Expeditions G
Math Expeditions G - Everglades
Decimals G
Add and subtract decimals
Math Expeditions H
Math Expedition H - Arkansas Wildlife Refuge
Decimals H
Add and subtract decimals
Math Expeditions I
Math Expeditions I - Philadelphia Archeology
Fractions I
Compare and order fractions
Decimals I
Add and subtract decimals
Foundational Mathematics
Understanding Fractions
Finding Equivalent Fractions
Understanding Decimals
Understanding Decimals: Tenths
Relating Decimals, Fractions, and Mixed Numbers
Working with Percent
Understanding Percent
Relating Fractions, Decimals, and Percents
Understanding Ratio and Proportion
Equivalent Ratios



7.M.1.2.2 Add, subtract, multiply, and divide whole numbers, fractions and decimals; and add, multiply, and divide integers. (327.02.a, 327.02.d)

Math Problem Solving

Math Fundamentals: Math Problem Solving

Building a Highway: Math Fundamentals: Math Problem Solving

Smart Shopping: Math Fundamentals: Math Problem Solving

Car Costs: Math Fundamentals: Math Problem Solving

Running a Business: Math Fundamentals: Math Problem Solving

Geometry and Measurement: Math Problem Solving

Planning a Park: Geometry and Measurement: Math Problem Solving

PLATO Course Pre-Algebra, Semester A

Unit 2 - Fractions

Dividing Fractions (Pre-AlgA)

Unit 3 - Decimals

Dividing Decimal Numbers

PLATO Course Pre-Algebra, Semester B

Unit 1 - Integers

Adding Integers (Pre-AlgB)

Multiplying Integers (Pre-AlgB)

Dividing Integers (Pre-AlgB)

Projects for the Real World G

PRW G - Volunteering

Get Rid of Graffiti

Paint Needed

Projects for the Real World H

PRW H - Medical Mix-Up

Up in Smoke

X-Rays Mark the Spot

PRW H - Maya Mystery

Dots, Bars & Shells

Calendar Dates

What's in a Bone?

Graph and Compare

Projects for the Real World I

PRW I - Earning Money

Time to Buck Up

Nets and Grosses

Math Expeditions G

Math Expeditions G - Everglades

Number Operation Subtraction G

Subtract 1, 2, or 3D numbers



- Subtract numbers up to 6-digit
- Subtract numbers with zeros
- Number Operation Multiply G
 - Multiply by 2, 3, or 4D number
- Number Operation Division G
 - 2D, 3D ? 2D, 1-digit quotient
 - Divide by 2D, 2-digit quotient
 - 3, 4, 5-digits divided by 2D
 - 4, 5, 6-digits divided by 3D
- Fractions G
 - Add & subtract different fractions
 - Multiply fractions/mix numbers
 - Divide fractions
- Decimals G
 - Add and subtract decimals
 - Multiply decimals
 - Divide decimals
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Number Operation Addition H
 - Add decimals
 - Number Operation Subtraction H
 - Subtract numbers up to 6-digit
 - Subtract decimals
 - Number Operation Multiply H
 - Multiply by 2, 3, or 4D number
 - Multiply decimals
 - Number Operation Division H
 - Divide whole numbers
 - Divide by decimals
 - Fractions H
 - Add & subtract different fractions
 - Multiply fractions/mix numbers
 - Divide fractions
 - Decimals H
 - Add and subtract decimals
 - Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Number Operation Addition I
 - Add decimals
 - Number Operation Subtraction I
 - Subtract numbers up to 6-digit
 - Subtract decimals



- Number Operation Multiply I
 - Multiply by 2, 3, or 4D number
 - Multiply decimals
- Number Operation Division I
 - Divide whole numbers
 - Divide by decimals
- Fractions I
 - Add & subtract different fractions
 - Multiply fractions/mix numbers
 - Divide fractions
- Decimals I
 - Add and subtract decimals
 - Multiply decimals
 - Divide decimals
- Foundational Mathematics
 - Adding and Subtracting Whole Numbers 1
 - Subtracting Two 2-Digit Numbers
 - Adding and Subtracting Whole Numbers 2
 - Subtracting Multi-Digit Numbers with Consecutive Regrouping
 - Subtracting across Zeros
 - Multiplying Whole Numbers
 - Multiplying a 3-Digit Number by a 1-Digit Number
 - Multiplying a 2-Digit Number by a 2-Digit Number
 - Dividing Whole Numbers
 - Dividing by a 2-Digit Number
 - Adding and Subtracting Fractions
 - Adding and Subtracting Fractions: Like Denominators
 - Adding and Subtracting Fractions: Unlike Denominators
 - Multiplying and Dividing Fractions
 - Multiplying Two Fractions
 - Dividing a Fraction by a Fraction
 - Performing Operations with Decimals
 - Adding and Subtracting Decimals
 - Multiplying Decimals
 - Dividing Decimals
- Algebra I, Part I
 - Basic Number Ideas - Algebra I, Part I
 - Adding Integers (Alg I.1)
 - Multiplying Integers (Alg I.1)
 - Dividing Integers (Alg I.1)
 - Multiplying Common Fractions (Alg I.1)
 - Adding and Subtracting Fractions (Alg I.1)
 - Dividing Fractions (Alg I.1)

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7.M.1.2.3 Evaluate whole numbers in exponential form.

PLATO Course Pre-Algebra, Semester B
Unit 1 - Integers
Exponents: Exponential Form (Pre-AlgB)
Exponents: Expanded Form (Pre-AlgB)
Algebra I, Part I
Basic Number Ideas - Algebra I, Part I
Exponents: Exponential Form (AlgI.1)
Exponents: Expanded Form (AlgI.1)

7.M.1.2.4 Evaluate numerical expressions using the order of operations with whole numbers and decimals. (327.02.b)

PLATO Course Algebra I, Semester B v2.0
Unit 1 - Rational Numbers, Exponents, Radicals, and Sets
Applying Laws of Exponents to Simplify Expressions
PLATO Course Pre-Algebra, Semester B
Unit 4 - Expressions, Equations, and Inequalities
Order of Operations (Pre-AlgB)
Expressions in 1 Variable (Pre-AlgB)
Expressions in 2 or More Variables (Pre-AlgB)
Algebra I, Part I
Math Sentences - Algebra I, Part I
Order of Operations (AlgI.1)
Expressions in 1 Variable (AlgI.1)
Expressions in 2 or More Variables (AlgI.1)

7.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. (327.02.e)

PLATO Course Geometry, Semester A v2.0
Unit 1 - Geometry Basics, Points, Lines, Planes, and Angles
Problem Solving, Patterns, and Solutions
Algebra I, Part I
Basic Number Ideas - Algebra I, Part I
Using Basic Number Ideas (AlgI.1)



7.M.1.2.6 Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations. (328.01.a)

Math Problem Solving
Math Fundamentals: Math Problem Solving
Smart Shopping: Math Fundamentals: Math Problem Solving
PLATO Course Geometry, Semester A v2.0
Unit I - Geometry Basics, Points, Lines, Planes, and Angles
Problem Solving, Patterns, and Solutions
Algebra I, Part I
Basic Number Ideas - Algebra I, Part I
Using Basic Number Ideas (AlgI.1)

7.M.1.2.7 Use appropriate vocabulary and notations. (327.02.f)

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.

7.M.1.3.1 Estimate to predict computation results. (327.03.a)

PLATO Course Pre-Algebra, Semester A
Unit I - Whole Numbers
Estimation Basics (Pre-AlgA)
PLATO Course Pre-Algebra, Semester B
Unit I - Integers
Word Problems with Integers
Math Expeditions G
Math Expeditions G - Everglades
Number Operation Addition G
Estimate sums
Number Operation Subtraction G
Estimate differences
Number Operation Multiply G
Estimate products
Number Operation Division G
Estimate quotients
Math Expeditions H
Math Expedition H - Arkansas Wildlife Refuge
Number Operation Addition H

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- Estimate sums
- Number Operation Subtraction H
- Estimate differences
- Number Operation Multiply H
- Estimate products
- Number Operation Division H
- Estimate quotients
- Math Expeditions I
- Math Expeditions I - Philadelphia Archeology
- Number Operation Addition I
- Estimate sums
- Number Operation Subtraction I
- Estimate differences
- Number Operation Multiply I
- Estimate products
- Number Operation Division I
- Estimate quotients
- Algebra I, Part I
- Special Topics - Algebra I, Part I
- Estimation Basics (AlgI.I)

7.M.1.3.2 Explain when estimation is appropriate and describe the usefulness of an estimate as opposed to an exact answer. (327.03.b)

- Math Problem Solving
- Math Fundamentals: Math Problem Solving
- Building a Highway: Math Fundamentals: Math Problem Solving
- PLATO Course Pre-Algebra, Semester A
- Unit I - Whole Numbers
- Estimation Basics (Pre-AlgA)
- Algebra I, Part I
- Basic Number Ideas - Algebra I, Part I
- Using Basic Number Ideas (AlgI.I)
- Special Topics - Algebra I, Part I
- Estimation Basics (AlgI.I)

7.M.1.3.3 Identify whether a given estimate is an overestimate or underestimate. (327.03.c)

PLATO Modules are not available for this learning expectation.



7.M.1.3.4 Use a four-function calculator to solve complex grade-level problems.

Math Problem Solving

Math Fundamentals: Math Problem Solving

Smart Shopping: Math Fundamentals: Math Problem Solving

PLATO Course Geometry, Semester A v2.0

Unit I - Geometry Basics, Points, Lines, Planes, and Angles

Problem Solving, Patterns, and Solutions

Algebra I, Part I

Basic Number Ideas - Algebra I, Part I

Using Basic Number Ideas (AlgI.1)

7.M.1.3.5 Formulate conjectures and discuss why they must be or seem to be true. (328.02.c)

PLATO Course Geometry, Semester A v2.0

Unit I - Geometry Basics, Points, Lines, Planes, and Angles

Geometric Conjectures

Projects for the Real World H

PRW H - Maya Mystery

Made in Copan

Imports and Exports

Projects for the Real World I

PRW I - Trouble in Camelot

Be Prepared

Don't Get Steamed

Call an Expert

Use a Mediator

PRW I - Making a Video

Where to Shoot

Choosing a Room

PRW I - Space Center

Troubleshooting

Flowcharts

7.M.1.3.6 Use appropriate vocabulary and notations. (327.03.d)

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.

7.M.2.1.1 Select and use appropriate units and tools to make formal measurements in both systems. (329.01.a)

Math Problem Solving

Geometry and Measurement: Math Problem Solving

Planning a Park: Geometry and Measurement: Math Problem Solving

Shelf Space: Geometry and Measurement: Math Problem Solving

PLATO Course Geometry, Semester A v2.0

Unit 3 - Polygons and Area

Calculating Perimeter of Geometric Figures

PLATO Course Pre-Algebra, Semester B

Unit 2 - Geometry

Finding the Perimeter of Polygons

Math Expeditions G

Math Expeditions G - Everglades

Geometry G

Find the perimeter

Math Expeditions H

Math Expedition H - Arkansas Wildlife Refuge

Geometry H

Find the perimeter

Math Expeditions I

Math Expeditions I - Philadelphia Archeology

Geometry I

Find the perimeter

7.M.2.1.2 Apply estimation of measurement to real-world and content problems using standard measuring devices. (329.01.b)

Math Problem Solving

Geometry and Measurement: Math Problem Solving

Planning a Park: Geometry and Measurement: Math Problem Solving

Shelf Space: Geometry and Measurement: Math Problem Solving

PLATO Course Pre-Algebra, Semester A

Unit 1 - Whole Numbers

Estimation Basics (Pre-AlgA)

Projects for the Real World I

PRW I - Space Center

Weather Forecast

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- Reading the Map
- Foundational Mathematics
 - Measurement
 - Solving Measurement Story Problems
- Algebra I, Part I
 - Special Topics - Algebra I, Part I
 - Estimation Basics (AlgI.I)
- Geometry I
 - Measurement
 - Using Measurement

7.M.2.1.3 Explain the differences between perimeter, area, and volume (capacity) and their measures within both systems. (329.01.c)

- Math Problem Solving
 - Geometry and Measurement: Math Problem Solving
 - Shelf Space: Geometry and Measurement: Math Problem Solving
- PLATO Course Geometry, Semester A v2.0
 - Unit 4 - Solid Figures and Volume
 - Perimeter and Volume

7.M.2.1.4 Given the formulas, find the perimeter, circumference, or area of triangles, circles, and quadrilaterals. (331.01.e)

- Math Problem Solving
 - Geometry and Measurement: Math Problem Solving
 - Planning a Park: Geometry and Measurement: Math Problem Solving
 - Shelf Space: Geometry and Measurement: Math Problem Solving
- PLATO Course Geometry, Semester A v2.0
 - Unit 3 - Polygons and Area
 - Calculating Perimeter of Geometric Figures
- PLATO Course Geometry, Semester B v2.0
 - Unit 3 - Circles
 - Circumference, Arc, and Length
- PLATO Course Pre-Algebra, Semester B
 - Unit 2 - Geometry
 - Finding the Perimeter of Polygons
 - Radius, Diameter, Circumference, and Pi
 - Calculating the Area of Rectangles and Squares (Pre-AlgB)
 - Area, Part 1 (Pre-AlgB)
 - Area, Part 2 (Pre-AlgB)
 - Using Geometry (Pre-AlgB)
- Projects for the Real World G



- PRW G - Volunteering
 - Get Rid of Graffiti
 - Paint Needed
- Math Expeditions G
 - Math Expeditions G - Everglades
 - Geometry G
 - Find the perimeter
 - Find the circumference
 - Find the area
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Geometry H
 - Find the perimeter
 - Find the circumference
 - Find the area
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Geometry I
 - Find the perimeter
 - Find the circumference
 - Find the area
- Foundational Mathematics
 - Plane and Solid Figures
 - Introduction to Circles
 - Using Geometry
 - Calculating the Area of Rectangles and Squares
 - Calculating the Area of Triangles
- Geometry I
 - Geometry
 - Circles, Arcs, and Circumferences
 - Using Geometry
 - Measurement
 - Area, Part 1
 - Area, Part 2
- Geometry 2
 - Transformations, Symmetry, and Area
 - Area of Right Triangles and Parallelograms
 - Area of Any Triangle
 - Area of Trapezoids and Rhombuses
 - Circles
 - Measuring Circumference
 - The Area of Circles



7.M.2.1.5 Convert units of measurement within each system. (329.01.e)

PLATO Course Pre-Algebra, Semester A
Unit 4 - Ratios and Proportions, Percents, and Measurement
Length
Capacity
Weight and Mass
Projects for the Real World G
PRW G - Yellowstone Connection
Hot Spots in Time
Hot Spots Through Time

7.M.2.1.6 Solve problems involving perimeter and area of rectangles and triangles. (329.01.d)

Math Problem Solving
Math Fundamentals: Math Problem Solving
Smart Shopping: Math Fundamentals: Math Problem Solving
Geometry and Measurement: Math Problem Solving
Planning a Park: Geometry and Measurement: Math Problem Solving
Shelf Space: Geometry and Measurement: Math Problem Solving
PLATO Course Geometry, Semester A v2.0
Unit 3 - Polygons and Area
Calculating Perimeter of Geometric Figures
PLATO Course Pre-Algebra, Semester B
Unit 2 - Geometry
Finding the Perimeter of Polygons
Calculating the Area of Rectangles and Squares (Pre-AlgB)
Area, Part 1 (Pre-AlgB)
Area, Part 2 (Pre-AlgB)
Projects for the Real World G
PRW G - Volunteering
Get Rid of Graffiti
Paint Needed
Math Expeditions G
Math Expeditions G - Everglades
Geometry G
Find the perimeter
Find the area
Math Expeditions H
Math Expedition H - Arkansas Wildlife Refuge
Geometry H
Find the perimeter



- Find the area
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Geometry I
 - Find the perimeter
 - Find the area
- Foundational Mathematics
 - Using Geometry
 - Calculating the Area of Rectangles and Squares
 - Calculating the Area of Triangles
 - Measurement
 - Solving Measurement Story Problems
- Geometry I
 - Measurement
 - Area, Part 1
 - Area, Part 2
 - Using Measurement
- Geometry 2
 - Transformations, Symmetry, and Area
 - Area of Right Triangles and Parallelograms
 - Area of Any Triangle
 - Area of Trapezoids and Rhombuses

7.M.2.1.7 Use appropriate vocabulary and notations. (329.01.f)

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

Goal 2.2: Apply the concepts of rates, ratios, and proportions.

7.M.2.2.1 Explain rates and their relationship to ratios, and use proportions to solve problems represented with a diagram. (329.02.a, 329.03.a)

- Math Problem Solving
 - Math Fundamentals: Math Problem Solving
 - Building a Highway: Math Fundamentals: Math Problem Solving
 - Smart Shopping: Math Fundamentals: Math Problem Solving
 - Car Costs: Math Fundamentals: Math Problem Solving
 - Running a Business: Math Fundamentals: Math Problem Solving
 - Data Skills: Math Problem Solving
 - Planning a Playground: Data Skills: Math Problem Solving

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- Growing Lilies: Data Skills: Math Problem Solving
- Advanced Algebra: Math Problem Solving
 - Building Boats: Advanced Algebra: Math Problem Solving
- Geometry and Measurement: Math Problem Solving
 - Planning a Park: Geometry and Measurement: Math Problem Solving
 - Shelf Space: Geometry and Measurement: Math Problem Solving
- Probability and Statistics: Math Problem Solving
 - The Fund Raiser: Probability and Statistics: Math Problem Solving
 - Making the Grade: Probability and Statistics: Math Problem Solving
 - Statistics for Quality: Probability and Statistics: Math Problem Solving
- PLATO Course Geometry, Semester A v2.0
 - Unit 1 - Geometry Basics, Points, Lines, Planes, and Angles
 - Problem Solving, Patterns, and Solutions
- PLATO Course Pre-Algebra, Semester A
 - Unit 4 - Ratios and Proportions, Percents, and Measurement
 - Solving Problems with Percents (Pre-AlgA)
 - Mental Math with Fractions and Percents (Pre-AlgA)
 - Scaling and Proportion, Part 2 (Pre-AlgA)
- PLATO Course Pre-Algebra, Semester B
 - Unit 4 - Expressions, Equations, and Inequalities
 - Solving Problems with Linear Equations in 1 Variable (Pre-AlgB)
- Projects for the Real World G
 - PRW G - Make TV Work for You
 - What Else Can I Do?
 - How Much Do You View?
 - The Rating Game
 - What Are TV Ratings?
 - Buying Time
 - PRW G - Olympic Games
 - What Shall I See?
 - Percents
 - Budget Buying
- Projects for the Real World I
 - PRW I - Earning Money
 - Creating a Budget
 - Money Makers
 - Income and Expenses
 - Time to Buck Up
 - Nets and Grosses
 - Buying Smart
 - A Fraction of the Cost
 - Which Price is Right?
 - PRW I - Making a Video



- Time Factors
 - Shooting Time
- PRW I - Space Center
 - Weather Forecast
 - Storm Map
- Math Expeditions G
 - Math Expeditions G - Everglades
 - Ratio/Proportion G
 - Solve rates and proportions
 - Find percents
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Ratio/Proportion/% H
 - Solve rates & proportions
 - Find percents
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Ratio/Proportion/%
 - Solve rates & proportions
 - Find percents
 - Solve percents
- Foundational Mathematics
 - Working with Percent
 - Finding a Percent of a Whole Number
 - Finding a Percent of a Decimal Number
 - Understanding Ratio and Proportion
 - Understanding Ratio
 - Understanding Proportion
 - Solving Ratio, Proportion, and Percent Story Problems
- Algebra I, Part I
 - Basic Number Ideas - Algebra I, Part I
 - Using Basic Number Ideas (AlgI.I)
 - Mental Math with Fractions and Percents (AlgI.I)
 - Special Topics - Algebra I, Part I
 - Finding the Amount with Percents Less than 1% (AlgI.I)
 - Solving Problems with Percents (AlgI.I)
 - Scaling and Proportion, Part 2 (AlgI.I)
- Geometry 2
 - Triangles and Lines
 - A Sense of Proportion



7.M.2.2.2 Reduce rates to unit rates.

- Math Expeditions G
 - Math Expeditions G - Everglades
 - Ratio/Proportion G
 - Solve rates and proportions
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Ratio/Proportion/% H
 - Solve rates & proportions
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Ratio/Proportion/%
 - Solve rates & proportions

Goal 2.3: Apply dimensional analysis.

7.M.2.3.1 Identify properly constructed dimensional analysis conversions. (329.04.a)

- Math Problem Solving
 - Geometry and Measurement: Math Problem Solving
 - Shelf Space: Geometry and Measurement: Math Problem Solving
- PLATO Course Geometry, Semester B v2.0
 - Unit 4 - Geometry of the Coordinate Plane
 - Dimensional Analysis for Unit Conversion

Standard 3: Concepts and Language of Algebra and Functions

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

7.M.3.1.1 Use variables in simple expressions and equations. (330.01.a)

- PLATO Course Algebra I, Semester A v2.0
 - Unit 1 - Rational Numbers, Exponents, and Square Roots
 - Properties of Real Numbers
- PLATO Course Pre-Algebra, Semester B
 - Unit 4 - Expressions, Equations, and Inequalities
 - Expressions in 1 Variable (Pre-AlgB)
 - Expressions in 2 or More Variables (Pre-AlgB)



- Determining the Truth Value of a Statement (Pre-AlgB)
- Linear Equations in 1 Variable: Isolating the Variable (Pre-AlgB)
- Simple Equations in 1 Variable: Using Inspection (Pre-AlgB)
- Simple Equations in 1 Variable: Isolating the Variable (Pre-AlgB)
- Projects for the Real World H
 - PRW H - Maya Mystery
 - What's in a Bone?
 - Graph and Compare
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Ratio/Proportion/% H
 - Find numbers from percents
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Ratio/Proportion/%
 - Find numbers from percents
- Foundational Mathematics
 - Understanding Addition and Subtraction 2
 - Using the Commutative Property of Addition
 - Understanding Multiplication
 - Using the Commutative Property of Multiplication
- Algebra I, Part I
 - Math Sentences - Algebra I, Part I
 - Expressions in 1 Variable (AlgI.1)
 - Expressions in 2 or More Variables (AlgI.1)
 - Determining the Truth Value of a Statement (AlgI.1)

7.M.3.1.2 Translate simple word statements into algebraic expressions and equations. (330.01.b)

- Math Problem Solving
 - Advanced Algebra: Math Problem Solving
 - Building Boats: Advanced Algebra: Math Problem Solving
- PLATO Course Pre-Algebra, Semester B
 - Unit 4 - Expressions, Equations, and Inequalities
 - Expressions in 1 Variable (Pre-AlgB)
 - Expressions in 2 or More Variables (Pre-AlgB)
- Algebra I, Part I
 - Basic Number Ideas - Algebra I, Part I
 - Using Basic Number Ideas (AlgI.1)
 - Math Sentences - Algebra I, Part I
 - Expressions in 1 Variable (AlgI.1)
 - Expressions in 2 or More Variables (AlgI.1)



7.M.3.1.3 Use symbols “<,” “>,” “=,” “≠” and “≤,” “≥” to express relationships. (330.01.c)

PLATO Course Pre-Algebra, Semester B
Unit 4 - Expressions, Equations, and Inequalities
Expressions in 1 Variable (Pre-AlgB)
Algebra I, Part I
Basic Number Ideas - Algebra I, Part I
Using Basic Number Ideas (AlgI.1)
Math Sentences - Algebra I, Part I
Expressions in 1 Variable (AlgI.1)

Goal 3.2: Evaluate algebraic expressions.

7.M.3.2.1 Evaluate simple numeric and algebraic expressions using commutative, associative, identity, zero, inverse, distributive, and substitution properties. (330.02.a)

PLATO Course Algebra I, Semester A v2.0
Unit 1 - Rational Numbers, Exponents, and Square Roots
Properties of Real Numbers
PLATO Course Pre-Algebra, Semester B
Unit 4 - Expressions, Equations, and Inequalities
Adding Monomials (Pre-AlgB)
Subtracting Monomials (Pre-AlgB)
Subtracting Binomials and Monomials (Pre-AlgB)
Linear Equations in 1 Variable: Isolating the Variable (Pre-AlgB)
Foundational Mathematics
Understanding Addition and Subtraction 2
Using the Commutative Property of Addition
Understanding Multiplication
Using the Commutative Property of Multiplication
Algebra I, Part I
Math Sentences - Algebra I, Part I
Adding Monomials (AlgI.1)
Subtracting Monomials (AlgI.1)
Adding Binomials and Monomials (AlgI.1)
Subtracting Binomials and Monomials (AlgI.1)



7.M.3.2.2 Use the order of operations in evaluating simple algebraic expressions. (330.02.b)

PLATO Course Algebra I, Semester B v2.0

Unit 1 - Rational Numbers, Exponents, Radicals, and Sets

Applying Laws of Exponents to Simplify Expressions

PLATO Course Pre-Algebra, Semester B

Unit 4 - Expressions, Equations, and Inequalities

Order of Operations (Pre-AlgB)

Expressions in 2 or More Variables (Pre-AlgB)

Algebra I, Part I

Math Sentences - Algebra I, Part I

Order of Operations (AlgI.I)

Expressions in 2 or More Variables (AlgI.I)

Goal 3.3: Solve algebraic equations and inequalities.

7.M.3.3.1 Solve one-step equations. (330.03.a)

PLATO Course Pre-Algebra, Semester B

Unit 4 - Expressions, Equations, and Inequalities

Linear Equations in 1 Variable: Solving by Inspection (Pre-AlgB)

Linear Equations in 1 Variable: Isolating the Variable (Pre-AlgB)

Simple Equations in 1 Variable: Using Inspection (Pre-AlgB)

Simple Equations in 1 Variable: Isolating the Variable (Pre-AlgB)

Math Expeditions H

Math Expedition H - Arkansas Wildlife Refuge

Ratio/Proportion/% H

Find numbers from percents

Math Expeditions I

Math Expeditions I - Philadelphia Archeology

Ratio/Proportion/%

Find numbers from percents

Algebra I, Part I

Math Sentences - Algebra I, Part I

Linear Equations in 1 Variable: Solving by Inspection (AlgI.I)

Linear Equations in 1 Variable: Isolating the Variable (AlgI.I)



Goal 3.4: Understand the concept of functions.

7.M.3.4.1 Extend patterns involving rational numbers and describe the rule that generates the pattern. (333.01.a)

PLATO Course Geometry, Semester A v2.0
Unit 1 - Geometry Basics, Points, Lines, Planes, and Angles
Problem Solving, Patterns, and Solutions
PLATO Course Pre-Algebra, Semester B
Unit 4 - Expressions, Equations, and Inequalities
Patterns and Sequences (Pre-AlgB)
Algebra I, Part I
Introduction to Functions - Algebra I, Part I
Patterns and Sequences (AlgI.I)
Functions (AlgI.I)
Describing Functions with Equations, Tables, and Graphs (AlgI.I)

7.M.3.4.2 Explain how a change in one quantity impacts a change in another quantity. (333.01.b)

Algebra I, Part I
Introduction to Functions - Algebra I, Part I
Describing Functions with Equations, Tables, and Graphs (AlgI.I)

7.M.3.4.3 Use appropriate vocabulary and notations. (333.01.c)

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

Goal 3.5: Represent equations, inequalities and functions in a variety of formats.

7.M.3.5.1 Represent a simple set of data in a table, as a graph, and as a mathematical relationship. (333.02.a)

Math Problem Solving
Data Skills: Math Problem Solving
Planning a Playground: Data Skills: Math Problem Solving
Growing Lilies: Data Skills: Math Problem Solving
Advanced Algebra: Math Problem Solving



- Building Boats: Advanced Algebra: Math Problem Solving
- PLATO Course Pre-Algebra, Semester B
 - Unit 3 - Statistics and Graphs
 - Interpreting Bar, Line, and Circle Graphs and Scatter Plots
 - Unit 4 - Expressions, Equations, and Inequalities
 - Linear Patterns (Pre-AlgB)
 - Interpreting Graphs to Solve Problems (Pre-AlgB)
- Projects for the Real World H
 - PRW H - Maya Mystery
 - What's in a Bone?
 - Graph and Compare
- Math Expeditions G
 - Math Expeditions G - Everglades
 - Graphs G
 - Data from graphs
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Graphs H
 - Data from graphs
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Graphs I
 - Data from graphs
- Algebra I, Part I
 - Introduction to Functions - Algebra I, Part I
 - Describing Functions with Equations, Tables, and Graphs (AlgI.I)
 - Linear Patterns (AlgI.I)
 - Interpreting Graphs to Solve Problems (AlgI.I)
- Data Skills for Today
 - Reading Graphical Data
 - Reading Line Graphs
 - Computing Graphical Data
 - Graphing and Charting
 - Using Line Graphs

Goal 3.6: Apply functions to a variety of problems.

7.M.3.6.I Use patterns and linear functions to represent and solve simple problems. (333.03.a)

- Math Problem Solving
 - Advanced Algebra: Math Problem Solving
 - Building Boats: Advanced Algebra: Math Problem Solving

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PLATO Course Geometry, Semester A v2.0
Unit 1 - Geometry Basics, Points, Lines, Planes, and Angles
Problem Solving, Patterns, and Solutions
PLATO Course Pre-Algebra, Semester B
Unit 4 - Expressions, Equations, and Inequalities
Patterns and Sequences (Pre-AlgB)
Linear Equations in 1 Variable: Solving by Inspection (Pre-AlgB)
Linear Equations in 1 Variable: Isolating the Variable (Pre-AlgB)
Literal Equations (Pre-AlgB)
Using Linear Equations to Solve Problems (Pre-AlgB)
Solving Problems with Linear Equations in 1 Variable (Pre-AlgB)
Algebra I, Part I
Math Sentences - Algebra I, Part I
Linear Equations in 1 Variable: Solving by Inspection (AlgI.I)
Linear Equations in 1 Variable: Isolating the Variable (AlgI.I)
Using Linear Equations to Solve Problems (AlgI.I)
Equations and Formulas - Algebra I, Part I
Literal Equations (AlgI.I)
Introduction to Functions - Algebra I, Part I
Patterns and Sequences (AlgI.I)
Functions (AlgI.I)
Describing Functions with Equations, Tables, and Graphs (AlgI.I)
Interpreting Graphs to Solve Problems (AlgI.I)

Standard 4: Concepts and Principles of Geometry

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

7.M.4.1.1 Classify relationships among types of one- and two-, dimensional geometric figures, using their defining properties. (331.01.a)

PLATO Course Geometry, Semester B v2.0
Unit 1 - Geometry of the Right Triangle and Right Triangle Trigonometry
Structures of Euclidean and Non-Euclidean Geometries
Unit 2 - Similarity, Congruency, and Transformations
Similar Polygons
Finding Missing Parts of Geometric Figures
PLATO Course Pre-Algebra, Semester B
Unit 2 - Geometry
Introduction to Polygons (Pre-AlgB)
Special Angles, Part I (Pre-AlgB)
The Pythagorean Theorem I (Pre-AlgB)
Changing Polygons and Circles



- Projects for the Real World H
 - PRW H - Maya Mystery
 - Made in Copan
 - Mapping a Tomb
- Math Expeditions G
 - Math Expeditions G - Everglades
 - Geometry G
 - Classify points, lines, angles
 - Identify geometric shapes
 - Measure angles
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Geometry H
 - Classify points, lines & angle
 - Identify geometric shapes
 - Measure angles
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Geometry I
 - Classify points, lines & angle
 - Identify geometric shapes
 - Measure angles
- Foundational Mathematics
 - Plane and Solid Figures
 - Lines, Parts of Lines, and Angles
 - Lines in a Plane
 - Introduction to Triangles
 - Exploring Congruent Figures
 - Exploring Similar Figures
- Geometry 1
 - Geometry
 - Special Angles, Part I
 - The Pythagorean Theorem I
- Geometry 2
 - Introduction to Geometry
 - Points, Lines, and Planes
 - Intersecting Lines and Planes
 - Polygons
 - Introduction to Polygons



7.M.4.1.2 Draw and measure various angles and shapes using appropriate tools. (331.01.b)

PLATO Course Pre-Algebra, Semester B
Unit 2 - Geometry
Special Angles, Part I (Pre-AlgB)
Perimeter and Area of Compound Shapes
Math Expeditions G
Math Expeditions G - Everglades
Geometry G
Measure angles
Math Expeditions H
Math Expedition H - Arkansas Wildlife Refuge
Geometry H
Measure angles
Math Expeditions I
Math Expeditions I - Philadelphia Archeology
Geometry I
Measure angles
Foundational Mathematics
Plane and Solid Figures
Lines in a Plane
Geometry I
Geometry
Special Angles, Part I
Geometry 2
Introduction to Geometry
Points, Lines, and Planes

7.M.4.1.3 Apply fundamental concepts, properties, and relationships among points, lines, rays, planes, and angles. (331.01.c)

PLATO Course Geometry, Semester B v2.0
Unit 1 - Geometry of the Right Triangle and Right Triangle Trigonometry
Structures of Euclidean and Non-Euclidean Geometries
PLATO Course Pre-Algebra, Semester B
Unit 2 - Geometry
Special Angles, Part I (Pre-AlgB)
Math Expeditions G
Math Expeditions G - Everglades
Geometry G
Classify points, lines, angles



- Measure angles
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Geometry H
 - Classify points, lines & angle
 - Measure angles
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Geometry I
 - Classify points, lines & angle
 - Measure angles
- Foundational Mathematics
 - Plane and Solid Figures
 - Lines, Parts of Lines, and Angles
 - Lines in a Plane
- Geometry I
 - Geometry
 - Special Angles, Part I
- Geometry 2
 - Introduction to Geometry
 - Points, Lines, and Planes
 - Intersecting Lines and Planes

7.M.4.1.4 Explain and model the effects of reflections, translations, and rotations on various shapes. (331.01.g)

- PLATO Course Geometry, Semester B v2.0
 - Unit 2 - Similarity, Congruency, and Transformations
 - Effects of Simple Transformations and Their Compositions
 - Unit 4 - Geometry of the Coordinate Plane
 - Congruence Transformations and the Coordinate Plane
- PLATO Course Pre-Algebra, Semester B
 - Unit 2 - Geometry
 - Changing Polygons and Circles
 - Translations (Pre-AlgB)
 - Rotations (Pre-AlgB)
- Math Expeditions G
 - Math Expeditions G - Everglades
 - Geometry G
 - Identify congruent & similar
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Geometry H



Identify congruent & similar
Math Expeditions I
Math Expeditions I - Philadelphia Archeology
Geometry I
Identify congruent & similar
Geometry 2
Transformations, Symmetry, and Area
Translations
Rotations

**7.M.4.1.5 Identify congruence, similarities, and line symmetry of shapes.
(331.01.d)**

PLATO Course Pre-Algebra, Semester B
Unit 2 - Geometry
Changing Polygons and Circles
Exploring Congruent Figures (Pre-AlgB)
Exploring Similar Figures (Pre-AlgB)
Symmetry (Pre-AlgB)
Math Expeditions G
Math Expeditions G - Everglades
Geometry G
Identify congruent & similar
Math Expeditions H
Math Expedition H - Arkansas Wildlife Refuge
Geometry H
Identify congruent & similar
Math Expeditions I
Math Expeditions I - Philadelphia Archeology
Geometry I
Identify congruent & similar
Foundational Mathematics
Plane and Solid Figures
Exploring Congruent Figures
Exploring Similar Figures
Line Symmetry in Plane Figures
Geometry 2
Transformations, Symmetry, and Area
Symmetry



7.M.4.1.6 Describe the concept of surface area and volume (capacity). (331.01.f)

Math Problem Solving

Geometry and Measurement: Math Problem Solving

Planning a Park: Geometry and Measurement: Math Problem Solving

Shelf Space: Geometry and Measurement: Math Problem Solving

PLATO Course Pre-Algebra, Semester B

Unit 2 - Geometry

Calculating the Volume of a Rectangular Prism (Pre-AlgB)

Surface Area of Prisms, Pyramids, and Cylinders

Math Expeditions G

Math Expeditions G - Everglades

Geometry G

Find the surface area

Math Expeditions H

Math Expedition H - Arkansas Wildlife Refuge

Geometry H

Find the volume

Find the surface area

Math Expeditions I

Math Expeditions I - Philadelphia Archeology

Geometry I

Find the volume

Find the surface area

Foundational Mathematics

Using Geometry

Calculating the Volume of a Rectangular Prism

Geometry I

Measurement

Volume

Using Measurement

Geometry 2

Solids and Coordinate Geometry

Area and Volume of Cylinders

Area and Volume of Cones

7.M.4.1.7 Use appropriate vocabulary and symbols. (331.01.h)

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

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Goal 4.3: Apply graphing in two dimensions.

7.M.4.3.1 Identify and plot points on a coordinate plane.

PLATO Course Geometry, Semester B v2.0
Unit 4 - Geometry of the Coordinate Plane
Cartesian Coordinates
PLATO Course Pre-Algebra, Semester B
Unit 4 - Expressions, Equations, and Inequalities
Coordinate Plane (Pre-AlgB)
Projects for the Real World H
PRW H - Maya Mystery
Made in Copan
Mapping a Tomb
Latitude and Longitude
Books of Stone
A Stone Forest
Math Expeditions G
Math Expeditions G - Everglades
Geometry G
Locate coordinate points
Math Expeditions H
Math Expedition H - Arkansas Wildlife Refuge
Geometry H
Locate coordinate points
Math Expeditions I
Math Expeditions I - Philadelphia Archeology
Geometry I
Locate coordinate points
Algebra I, Part I
Graphing Basics - Algebra I, Part I
Coordinate Plane (Alg I.1)
Identifying Points on a Coordinate Plane (Alg I.1)
Geometry 2
Solids and Coordinate Geometry
Coordinates in Three Dimensions



Standard 5: Data Analysis, Probability, and Statistics

Goal 5.1: Understand data analysis.

7.M.5.1.1 Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots. (332.01.a)

Math Problem Solving

Data Skills: Math Problem Solving

Planning a Playground: Data Skills: Math Problem Solving

Growing Lilies: Data Skills: Math Problem Solving

Probability and Statistics: Math Problem Solving

Making the Grade: Probability and Statistics: Math Problem Solving

Statistics for Quality: Probability and Statistics: Math Problem Solving

PLATO Course Algebra I, Semester A v2.0

Unit 4 - Linear Relations, Systems, Functions, and Special Topics

Creating and Interpreting Stem-and-Leaf Plots

Creating and Interpreting Circle Graphs

PLATO Course Pre-Algebra, Semester B

Unit 3 - Statistics and Graphs

Interpreting Bar, Line, and Circle Graphs and Scatter Plots

Projects for the Real World G

PRW G - Yellowstone Connection

Blue Dot Disease

Blue Dot Basics

Updating the Park Map

Earth Energy

Making Graphs

PRW G - Make TV Work for You

What Else Can I Do?

How Much Do You View?

The Rating Game

What Are TV Ratings?

Buying Time

PRW G - Olympic Games

What Shall I See?

Percents

Getting Around

Bus Schedules

Projects for the Real World H

PRW H - All Kinds of Families

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- Family Changes
 - Changing Family Life
- PRW H - Medical Mix-Up
 - Up in Smoke
 - X-Rays Mark the Spot
 - Know It By Heart
 - Body Fat
 - Easy Test to Pass
 - Drug Detection Methods
- PRW H - Consumer Guide
 - Money Talks
 - Conscious Choices
 - Who Does What?
 - Product Reports
 - What Are Product Reports?
 - Can You Afford It?
 - ScatterPlots
- PRW H - Maya Mystery
 - Made in Copan
 - Imports and Exports
 - What's in a Bone?
 - Graph and Compare
 - Observe and Compare
- Projects for the Real World I
 - PRW I - Earning Money
 - The Right Match
 - Balancing Act
 - Get the Word Out
 - Where the Jobs Are
 - Survival Skills
 - Following Directions
 - Time to Buck Up
 - Single File
 - PRW I - Trouble in Camelot
 - Call an Expert
 - Call for Help
 - Go to Court
 - Do Your Research
 - PRW I - Making a Video
 - Where to Shoot
 - Choosing a Room
 - PRW I - Space Center
 - Historical View

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- Timelines
- Troubleshooting
- Flowcharts
- Math Expeditions G
 - Math Expeditions G - Everglades
 - Graphs G
 - Data from graphs
- Math Expeditions H
 - Math Expedition H - Arkansas Wildlife Refuge
 - Graphs H
 - Data from graphs
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Graphs I
 - Data from graphs
- Algebra I, Part I
 - Introduction to Functions - Algebra I, Part I
 - Interpreting Graphs to Solve Problems (Alg.I.I)
- Data Skills for Today
 - Reading Graphical Data
 - Reading Pie Charts
 - Reading Line Graphs
 - Reading Bar Graphs
 - Reading Data in Tables
 - Computing Graphical Data
 - Graphing and Charting
 - Tables
 - Using Line Graphs
 - Using Bar Graphs
 - Using Pie Charts
 - Using Histograms
 - Reading Complex Charts and Graphs
 - Reading Histograms
 - Reading Complex Tables
- Miscellaneous Math Resource
 - Charting and Graphing
 - Charts and Graphs for Quality
 - Understanding Scatter Diagrams
 - Interpreting Scatter Diagrams
 - Interpreting Histograms
 - Control Charts
 - Control Chart Basics
 - Using Control Charts

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**7.M.5.1.2 Explain conclusions drawn from tables, charts, and graphs.
(332.01.b)**

Math Problem Solving

Data Skills: Math Problem Solving

Planning a Playground: Data Skills: Math Problem Solving

Growing Lilies: Data Skills: Math Problem Solving

Probability and Statistics: Math Problem Solving

Making the Grade: Probability and Statistics: Math Problem Solving

Statistics for Quality: Probability and Statistics: Math Problem Solving

PLATO Course Pre-Algebra, Semester B

Unit 3 - Statistics and Graphs

Analyzing the Validity of Data

Projects for the Real World G

PRW G - Yellowstone Connection

Blue Dot Disease

Blue Dot Basics

Updating the Park Map

Earth Energy

Making Graphs

PRW G - Make TV Work for You

What Else Can I Do?

How Much Do You View?

The Rating Game

What Are TV Ratings?

Buying Time

PRW G - Olympic Games

What Shall I See?

Percents

Getting Around

Bus Schedules

Projects for the Real World H

PRW H - All Kinds of Families

Family Changes

Changing Family Life

PRW H - Medical Mix-Up

Up in Smoke

X-Rays Mark the Spot

Know It By Heart

Body Fat

Easy Test to Pass

Drug Detection Methods

PRW H - Consumer Guide

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- Money Talks
 - Who Does What?
- Product Reports
 - What Are Product Reports?
 - Can You Afford It?
 - ScatterPlots
- PRW H - Maya Mystery
 - Made in Copan
 - Imports and Exports
 - What's in a Bone?
 - Graph and Compare
 - Observe and Compare
- Projects for the Real World I
 - PRW I - Earning Money
 - Creating a Budget
 - Income and Expenses
 - The Right Match
 - Balancing Act
 - Get the Word Out
 - Where the Jobs Are
 - Survival Skills
 - Following Directions
 - Time to Buck Up
 - Single File
 - Buying Smart
 - A Fraction of the Cost
 - PRW I - Trouble in Camelot
 - Call an Expert
 - Call for Help
 - Go to Court
 - Do Your Research
 - PRW I - Making a Video
 - Where to Shoot
 - Choosing a Room
 - PRW I - Space Center
 - Weather Forecast
 - Storm Map
 - Historical View
 - Timelines
 - Troubleshooting
 - Flowcharts
 - Data Skills for Today
 - Reading Graphical Data

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- Reading Data in Tables
- Computing Graphical Data
 - Tables
- Reading Complex Charts and Graphs
 - Reading Complex Tables
- Miscellaneous Math Resource
 - Data Collection
 - Assuring Accuracy
 - Control Charts
 - Control Chart Basics
 - Using Control Charts

7.M.5.1.3 Use appropriate vocabulary and notations. (332.01.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.

7.M.5.2.1 Collect, organize, and display data with appropriate notation in tables, charts and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots. (332.02.a)

- Math Problem Solving
 - Data Skills: Math Problem Solving
 - Planning a Playground: Data Skills: Math Problem Solving
 - Growing Lilies: Data Skills: Math Problem Solving
 - Probability and Statistics: Math Problem Solving
 - Making the Grade: Probability and Statistics: Math Problem Solving
- PLATO Course Algebra I, Semester A v2.0
 - Unit 4 - Linear Relations, Systems, Functions, and Special Topics
 - Creating and Interpreting Stem-and-Leaf Plots
- PLATO Course Pre-Algebra, Semester B
 - Unit 3 - Statistics and Graphs
 - Creating Bar, Line, and Circle Graphs and Scatter Plots
- Projects for the Real World G
 - PRW G - Yellowstone Connection
 - Earth Energy
 - Making Graphs
 - PRW G - Make TV Work for You
 - What Else Can I Do?
 - How Much Do You View?



- The Rating Game
 - Buying Time
- PRW G - Olympic Games
 - Get in Shape!
 - Design an Exercise Plan
- Projects for the Real World H
 - PRW H - All Kinds of Families
 - Family Changes
 - Changing Family Life
 - PRW H - Consumer Guide
 - Product Reports
 - What Are Product Reports?
 - Can You Afford It?
 - ScatterPlots
- PRW H - Maya Mystery
 - Books of Stone
 - Using Timelines
 - Tables and Kings
 - What's in a Bone?
 - Observe and Compare
- Projects for the Real World I
 - PRW I - Making a Video
 - Where to Shoot
 - Choosing a Room
- Data Skills for Today
 - Computing Graphical Data
 - Tables
 - Constructing Graphs and Charts
 - Constructing Line Graphs
 - Constructing Bar Graphs
 - Constructing Histograms
 - Selecting Graphs and Charts
- Miscellaneous Math Resource
 - Data Collection
 - Assuring Accuracy
 - Using Data Collection Tools
 - Control Charts
 - Control Chart Basics
 - Selecting and Completing Control Charts



Goal 5.3: Apply simple statistical measurements.

7.M.5.3.1 Determine the measures of central tendency - mean, median and mode - with sets of data. (332.03.a)

Math Problem Solving

Data Skills: Math Problem Solving

Growing Lilies: Data Skills: Math Problem Solving

Probability and Statistics: Math Problem Solving

Making the Grade: Probability and Statistics: Math Problem Solving

PLATO Course Pre-Algebra, Semester B

Unit 3 - Statistics and Graphs

Mean, Median, and Mode (Pre-AlgB)

More on Central Tendencies

Box-and-Whisker Plots

Projects for the Real World H

PRW H - Medical Mix-Up

Know It By Heart

Body Fat

Math Expeditions G

Math Expeditions G - Everglades

Probability/Stats G

Range, median, mode, & mean

Math Expeditions H

Math Expedition H - Arkansas Wildlife Refuge

Probability/Stats H

Range, median, mode & mean

Math Expeditions I

Math Expeditions I - Philadelphia Archeology

Probability/Stats I

Range, median, mode & mean

Algebra I, Part I

Special Topics - Algebra I, Part I

Mean, Median, and Mode (Alg I. I)

Solving Problems with Mean, Median, and Mode (Alg I. I)

Miscellaneous Math Resource

Charting and Graphing

Basic Statistics



7.M.5.3.2 Discuss distribution of data, including range, frequency, gaps, and clusters. (332.03.b)

Math Problem Solving
Probability and Statistics: Math Problem Solving
Statistics for Quality: Probability and Statistics: Math Problem Solving
PLATO Course Pre-Algebra, Semester B
Unit 3 - Statistics and Graphs
Box-and-Whisker Plots
Math Expeditions G
Math Expeditions G - Everglades
Probability/Stats G
Range, median, mode, & mean
Math Expeditions H
Math Expedition H - Arkansas Wildlife Refuge
Probability/Stats H
Range, median, mode & mean
Math Expeditions I
Math Expeditions I - Philadelphia Archeology
Probability/Stats I
Range, median, mode & mean
Data Skills for Today
Reading Complex Charts and Graphs
Reading Histograms
Miscellaneous Math Resource
Charting and Graphing
Interpreting Histograms
Basic Statistics

Goal 5.4: Understand basic concepts of probability.

7.M.5.4.1 Predict, perform, and record results of simple probability experiments. (332.04.a)

Math Problem Solving
Probability and Statistics: Math Problem Solving
The Fund Raiser: Probability and Statistics: Math Problem Solving
PLATO Course Pre-Algebra, Semester B
Unit 3 - Statistics and Graphs
Determining the Probability of an Event (Pre-AlgB)
Chance Experiments and Probability (Pre-AlgB)
Math Expeditions H



- Math Expedition H - Arkansas Wildlife Refuge
 - Probability/Stats H
 - Find probability & outcomes
- Math Expeditions I
 - Math Expeditions I - Philadelphia Archeology
 - Probability/Stats I
 - Find probability & outcomes
- Algebra I, Part I
 - Special Topics - Algebra I, Part I
 - Probability and Possible Outcomes (AlgI.I)
 - Probability of an Event (AlgI.I)
 - Solving Problems with Probability (AlgI.I)

7.M.5.4.2 Recognize equally likely outcomes. (332.04.c)

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 - Chance Experiments and Probability (Pre-AlgB)
- Projects for the Real World I
 - PRW I - Space Center
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7.M.5.4.3 Explain that probability ranges from impossible to certain (0% to 100%).

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7.M.5.4.4 Use the language of probability. (332.04.b)

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Goal 5.5: Make predictions or decisions based on data.

**7.M.5.5.1 Make predictions based on simple theoretical probabilities.
(332.05.a)**

Math Expeditions H

Math Expedition H - Arkansas Wildlife Refuge

Probability/Stats H

Find probability & outcomes

Math Expeditions I

Math Expeditions I - Philadelphia Archeology

Probability/Stats I

Find probability & outcomes

7.M.5.5.2 Use appropriate vocabulary and notations. (332.05.b)

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