

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

Mathematics Grades K–5

April 13, 2005

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.

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® Math Fundamentals**

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

Grade Kindergarten

Number Sense

1.0 Students understand the relationship between numbers and quantities (i.e., that a set of objects has the same number of objects in different situations, regardless of its position or arrangement).

1.1 Compare two or more sets objects (up to ten objects in each group), and identify which set is equal to, more than, or less than the other.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 0-9
- Whole Numbers 0-9 Review

- Whole Numbers 10-99
- Numbers 10-999 Review

1.2 Count, recognize, represent, name and order a numbers of objects (up to 30).

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 0-9
- Counting Numbers
- Whole Numbers 0-9 Review

- Whole Numbers 10-99
- Whole Numbers 100-999
- Numbers 10-999 Review
- Addition
- Addition Skills 2

1.3 Know that the larger numbers describe sets with more objects in them than smaller numbers have.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 0-9
- Counting Numbers
- Whole Numbers 0-9 Review

- Whole Numbers 10-99
- Whole Numbers 100-999
- Numbers 10-999 Review
- Addition
- Addition Skills 2

2.0 Students understand and describe simple additions and subtractions.

2.1 Use concrete objects to determine the answers to addition and subtraction problems (for two numbers that are each less than 10).

PLATO Math Fundamentals

- Addition
 - Meaning of Addition
 - Addition Facts 1
 - Addition Facts 2
 - Addition Skills 1
 - Addition Skills 2

- Subtraction
 - Meaning of Subtraction
 - Subtraction Facts
 - Subtraction Skills 1
 - Subtraction Skills 2
 - Subtraction Review

Measurement and Geometry

1.0 Students understand the concept of time and units to measure it; they understand that objects have properties, such as length, weight, and capacity, and that comparisons may be made by referring to those properties.

1.2 Demonstrate an understanding of concepts of time (e.g., morning, afternoon, evening, yesterday, tomorrow, week, year) and tools that measure time (e.g., clock, calendar).

PLATO Math Fundamentals

- Geometry and Measurement
- Linear Measurement
- Measurement Review

1.4 Identify the time (to the nearest hour) of everyday events (e.g., lunch time is 12 o'clock, bed time is 8 o'clock at night).

PLATO Math Fundamentals

- Geometry and Measurement
- Linear Measurement

2.0 Students identify common objects in their environment and describe the geometric features.

2.1 Identify and describe common geometric objects (e.g., circle, triangle, square, rectangle, cube, sphere, cone).

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Common 3-Dimensional Figures
- Basic Figures Review

2.2 Compare familiar plane and solid objects by common attributes (e.g., position, shape, size, roundness, number of corners).

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Common 3-Dimensional Figures
- Basic Figures Review

Mathematical Reasoning

1.0 Students make decisions about how to set up a problem.

1.1 Determine the approach, materials, and strategies to be used.

PLATO Math Fundamentals

- | | |
|--|---|
| <ul style="list-style-type: none"> ·Subtraction ·Problem Solving 1 ·Multiplication ·Problem Solving 2 ·Division ·Problem Solving 3 | <ul style="list-style-type: none"> ·Fractions ·Problem Solving 4 ·Decimals ·Problem Solving 5 ·Ratio/Proportion/Percent ·Problem Solving 6 ·Geometry and Measurement ·Problem Solving 7 |
|--|---|

1.2 Use tools and strategies, such as manipulatives or sketches, to model problems.

PLATO 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

2.0 Students solve problems in reasonable ways and justify their reasoning.

2.1 Explain the reasoning used with concrete objects and/or pictorial representations.

PLATO 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

2.2 Make precise calculations and check the validity of the results in the context of the problem.

PLATO 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

Grade 1

Number Sense

1.0 Students understand and use numbers up to 100.

1.1 Count, read, and write whole numbers to 100.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
 - Whole Numbers 0-9
 - Counting Numbers

- Whole Numbers 0-9 Review
- Whole Numbers 10-99

1.2 Compare and order whole numbers to 100 by using the symbols for less than, equal to, or greater than ($<$, $=$, $>$).

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
 - Whole Numbers 0-9
 - Whole Numbers 0-9 Review

- Whole Numbers 10-99
- Numbers 10-999 Review

1.3 Represent equivalent forms of the same number through the use of physical models, diagrams, and number expressions (to 20) (e.g., 8 may be represented as $4 + 4$, $5 + 3$, $2 + 2 + 2 + 2$, $10 - 2$, $11 - 3$).

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 0–9
- Counting Numbers
- Whole Numbers 0–9 Review

- Whole Numbers 10–99
- Whole Numbers 100–999
- Numbers 10–999 Review
- Addition
- Addition Skills 2

1.4 Count and group objects in ones and tens (e.g., three groups of 10 and 4 equals 34 or $30 + 4$).

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 0–9
- Counting Numbers
- Whole Numbers 0–9 Review
- Whole Numbers 10–99

- Whole Numbers 100–999
- Numbers 10–999 Review
- Hundreds and Thousands
- Millions/Billions and Trillions
- Addition
- Addition Skills 2

2.0 Students demonstrate the meaning of addition and subtraction and use these operations to solve problems.

2.1 Know the addition facts (sums to 20) and the corresponding subtraction facts and commit them to memory.

PLATO Math Fundamentals

- Addition
- Addition Facts 1
- Addition Facts 2

- Subtraction
- Subtraction Facts
- Subtraction Skills 1
- Subtraction Review

2.2 Use the inverse relationship between addition and subtraction to solve problems.

PLATO Math Fundamentals

- Subtraction
- Meaning of Subtraction

2.3 Identify one more than, one less than, 10 more than, 10 less than a given number.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 0–9

2.5 Show the meaning of addition (putting together, increasing) and subtraction (taking away, comparing, finding the difference).

PLATO Math Fundamentals

- Addition
- Meaning of Addition
- Addition Facts 2
- Addition Skills 1
- Addition Skills 2

- Subtraction
- Meaning of Subtraction
- Subtraction Skills 1
- Subtraction Skills 2
- Subtraction Review

2.6 Solve addition and subtraction problems with one- and two-digit numbers (e.g., $5 + 58 = \underline{\quad}$).

PLATO Math Fundamentals

·Addition

- Addition Facts 1
- Addition Facts 2
- Addition Skills 1
- Addition Skills 2

·Addition Review

·Subtraction

- Subtraction Facts
- Subtraction Skills 1
- Subtraction Skills 2
- Subtraction Review

3.0 Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, and hundreds places.

3.1 Make reasonable estimates when comparing larger or smaller numbers.

PLATO Math Fundamentals

·Basic Number Ideas - Beginning

- Whole Numbers 0–9
- Whole Numbers 0–9 Review

·Whole Numbers 10–99

·Numbers 10–999 Review

Algebra and Functions

1.0 Students use number sentences with operational symbols and expressions to solve problem.

1.1 Write and solve number sentences from problem situations that express relationships involving addition and subtraction.

PLATO Math Fundamentals

·Addition

- Addition Facts 1
- Addition Facts 2

·Subtraction

- Meaning of Subtraction
- Subtraction Facts
- Subtraction Skills 1
- Subtraction Review

1.2 Understand the meaning of the symbols $+$, $-$, $=$.

PLATO Math Fundamentals

·Addition

- Meaning of Addition

·Subtraction

- Meaning of Subtraction

1.3 Create problem situations that might lead to given number sentences involving addition and subtraction.

PLATO Math Fundamentals

·Subtraction

- Problem Solving 1

·Multiplication

- Problem Solving 2

·Division

- Problem Solving 3

Measurement and Geometry

1.0 Students use direct comparison and nonstandard units to describe the measurements of objects.

1.1 Compare the length, weight, and volume of two or more objects by using direct comparison or a nonstandard unit.

PLATO Math Fundamentals

- Geometry and Measurement
- Linear Measurement
- Volume and Capacity Measurement
- Measurement Review

2.0 Students identify common geometric figures, classify them by common attributes, and describe their relative position or their location in space.

2.1 Identify, describe, and compare triangles, rectangles, squares, and circles, including the faces of three-dimensional objects.

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Common 3-Dimensional Figures
- Basic Figures Review

2.2 Classify familiar plane and solid objects by common attributes, such as color, position, shape, size, roundness, or number of corners, and explain which attributes are being used for classification.

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Common 3-Dimensional Figures
- Basic Figures Review

2.4 Arrange and describe objects in space by proximity, position, and direction (e.g., near, far, below, above, up, down, behind, in front of, next to, left or right of).

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2

2.0 Students sort objects and create and describe patterns by numbers, shape, size, rhythm, or color.

2.1 Describe, extend, and explain ways to get to a next element in simple repeating patterns (e.g., rhythmic, numeric, color, and shape).

PLATO Math Fundamentals

- Fractions
- Multiples and Common Denominators

Mathematical Reasoning

1.0 Students make decisions about how to set up a problem.

1.1 Determine the approach, materials, and strategies to be used.

PLATO Math Fundamentals

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

1.2 Use tools, such as manipulatives or sketches, to model problems.

PLATO Math Fundamentals

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

2.0 Students solve problems and justify their reasoning.

2.1 Explain the reasoning used and justify the procedures selected.

PLATO Math Fundamentals

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

2.2 Make precise calculations and check the validity of the results from the context of the problem.

PLATO Math Fundamentals

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

Grade 2
Number Sense

1.0 Students understand the relationship between numbers, quantities, and place value in whole numbers up to 1,000.

1.1 Count, read, and write whole numbers to 1,000 and identify the place value for each digit.

PLATO Math Fundamentals

- | | |
|---------------------------------|----------------------------------|
| ·Basic Number Ideas - Beginning | ·Whole Numbers 100–999 |
| ·Counting Numbers | ·Numbers 10–999 Review |
| ·Whole Numbers 10–99 | ·Hundreds and Thousands |
| | ·Millions/Billions and Trillions |

1.2 Use words, models, and expanded form (e.g., $45 = 4 \text{ tens} + 5$) to represent numbers (to 1,000).

PLATO Math Fundamentals

- | | |
|---------------------------------|----------------------------------|
| ·Basic Number Ideas - Beginning | ·Whole Numbers 100–999 |
| ·Whole Numbers 0–9 | ·Numbers 10–999 Review |
| ·Counting Numbers | ·Hundreds and Thousands |
| ·Whole Numbers 0–9 Review | ·Millions/Billions and Trillions |
| ·Whole Numbers 10–99 | ·Addition |
| | ·Addition Skills 2 |

1.3 Order and compare whole numbers to 1,000 by using the symbols .

PLATO Math Fundamentals

- | | |
|---------------------------------|------------------------|
| ·Basic Number Ideas - Beginning | ·Whole Numbers 10–99 |
| ·Whole Numbers 0–9 | ·Numbers 10–999 Review |
| ·Whole Numbers 0–9 Review | |

2.0 Students estimate, calculate, and solve problems involving addition and subtraction of two- and three-digit numbers.

2.1 Understand and use the inverse relationship between addition and subtraction (e.g., an opposite number sentence for $8 + 6 = 14$ is $14 - 6 = 8$) to solve problems and check solutions.

PLATO Math Fundamentals

- Subtraction
- Meaning of Subtraction

2.2 Find the sum or difference of two whole numbers up to three digits long.

PLATO Math Fundamentals

- | | |
|--------------------|-----------------------|
| ·Addition | ·Addition Review |
| ·Addition Facts 1 | ·Subtraction |
| ·Addition Facts 2 | ·Subtraction Facts |
| ·Addition Skills 1 | ·Subtraction Skills 1 |
| ·Addition Skills 2 | ·Subtraction Skills 2 |
| ·Addition Skills 3 | ·Subtraction Skills 3 |
| ·Addition Skills 4 | ·Subtraction Skills 4 |
| | ·Subtraction Review |

2.3 Use mental arithmetic to find the sum or difference of two 2-digit numbers.

PLATO 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

3.0 Students model and solve simple problems involving multiplication and division.

3.1 Use repeated addition, arrays, counting by multiples to do multiplication.

PLATO Math Fundamentals

- Multiplication
 - Meaning of Multiplication
 - Multiplication Facts 1
 - Multiplication Properties 1

- Multiplication Properties 2
- Multiplication Skills 1
- Multiplication Skills 5
- Division
 - Meaning of Division

3.2 Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division.

PLATO Math Fundamentals

- Multiplication
 - Meaning of Multiplication
 - Multiplication Facts 1
 - Multiplication Properties 1

- Multiplication Properties 2
- Multiplication Skills 1
- Multiplication Skills 5
- Division
 - Meaning of Division

3.3 Know the multiplication tables of 2s, 5s and 10s (to "times 10") and commit them to memory.

PLATO Math Fundamentals

- Multiplication
 - Multiplication Facts 1
 - Multiplication Facts 2

4.0 Students understand that fractions and decimals may refer to parts of a set and parts of a whole.

4.1 Recognize, name, and compare unit fractions from 1/12 to 1/2.

PLATO Math Fundamentals

- Fractions
 - Meaning of Fractions
 - Equivalent Fractions
- Ratio/Proportion/Percent
 - Ratio Concepts

- Comparing Fractions
- Basic Terms Review
- Adding and Subtracting Fractions 1

4.2 Recognize fractions of a whole and parts of a group (e.g., 1/4th of a pie, 2/3rds of 15 balls).

PLATO Math Fundamentals

- Fractions
- Meaning of Fractions
- Equivalent Fractions
- Comparing Fractions
- Basic Terms Review
- Ratio/Proportion/Percent
- Ratio Concepts

4.3 Know that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one.

PLATO Math Fundamentals

- Fractions
- Meaning of Fractions
- Equivalent Fractions
- Comparing Fractions
- Basic Terms Review
- Ratio/Proportion/Percent
- Ratio Concepts

5.0 Students model and solve problems by representing, adding, and subtracting amounts of money.

5.1 Solve problems using combinations of coins and bills.

PLATO 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

6.0 Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places.

6.1 Recognize when an estimate is reasonable in measurements (e.g., closest inch).

PLATO Math Fundamentals

- Geometry and Measurement
- Area Measurement
- Measurement Review

Algebra and Functions

1.0 Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction.

1.1 Use the commutative and associative rules to simplify mental calculations and to check results.

PLATO Math Fundamentals

- Addition
- Addition Properties
- Multiplication
- Multiplication Properties 1

1.2 Relate problem situations to number sentences involving addition and subtraction.

PLATO Math Fundamentals

- Subtraction
- Meaning of Subtraction
- Problem Solving 1
- Multiplication
- Problem Solving 2
- Division
- Problem Solving 3

1.3 Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.

PLATO Math Fundamentals

- Subtraction
- Meaning of Subtraction
- Problem Solving 1
- Multiplication
- Problem Solving 2
- Division
- Problem Solving 3

Measurement and Geometry

1.0 Students understand that measurement is accomplished by identifying a unit of measure, iterating (repeating) that unit, and comparing it to the item to be measured.

1.1 Measure the length of objects by iterating (repeating) a nonstandard or standard unit.

PLATO Math Fundamentals

- Geometry and Measurement
- Linear Measurement
- Measurement Review

1.2 Use different units to measure the same object and predict whether the measure will be greater or smaller when a different unit is used.

PLATO Math Fundamentals

- Geometry and Measurement
- Linear Measurement
- Measurement Review

1.3 Measure the length of an object to the nearest inch and/or centimeter.

PLATO Math Fundamentals

- Geometry and Measurement
- Linear Measurement
- Measurement Review

2.0 Students identify and describe the attributes of common figures in the plane and of common objects in space.

2.1 Describe and classify plane and solid geometric shapes (e.g., circle, triangle, square, rectangle, sphere, pyramid, cube, rectangular prism) according to the number and shape of faces, edges, and vertices.

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Common 3-Dimensional Figures
- Basic Figures Review

Statistics, Data Analysis, and Probability

2.0 Students demonstrate an understanding of patterns and how they grow, and describe them in general ways.

2.1 Recognize, describe, and extend patterns and determine a next term in linear patterns (e.g., 4, 8, 12 ...; the number of ears on 1 horse, 2 horses, 3 horses, 4 horses).

PLATO Math Fundamentals

- Fractions
- Multiples and Common Denominators

2.2 Solve problems involving simple number patterns.

PLATO Math Fundamentals

- Fractions
- Multiples and Common Denominators

Mathematical Reasoning

1.0 Students make decisions about how to set up a problem:

1.1 Determine the approach, materials, and strategies to be used.

PLATO Math Fundamentals

- | | |
|--|---|
| <ul style="list-style-type: none"> ·Subtraction ·Problem Solving 1 ·Multiplication ·Problem Solving 2 ·Division ·Problem Solving 3 ·Fractions ·Problem Solving 4 | <ul style="list-style-type: none"> ·Decimals ·Problem Solving 5 ·Ratio/Proportion/Percent ·Problem Solving 6 ·Geometry and Measurement ·Problem Solving 7 |
|--|---|

1.2 Use tools, such as manipulatives or sketches, to model problems.

PLATO Math Fundamentals

- | | |
|--|---|
| <ul style="list-style-type: none"> ·Subtraction ·Problem Solving 1 ·Multiplication ·Problem Solving 2 ·Division ·Problem Solving 3 | <ul style="list-style-type: none"> ·Fractions ·Problem Solving 4 ·Decimals ·Problem Solving 5 ·Ratio/Proportion/Percent ·Problem Solving 6 ·Geometry and Measurement ·Problem Solving 7 |
|--|---|

2.0 Students solve problems and justify their reasoning.

2.1 Defend the reasoning used and justify the procedures selected.

PLATO Math Fundamentals

- | | |
|--|---|
| <ul style="list-style-type: none"> ·Subtraction ·Problem Solving 1 ·Multiplication ·Problem Solving 2 ·Division ·Problem Solving 3 | <ul style="list-style-type: none"> ·Fractions ·Problem Solving 4 ·Decimals ·Problem Solving 5 ·Ratio/Proportion/Percent ·Problem Solving 6 ·Geometry and Measurement ·Problem Solving 7 |
|--|---|

2.2 Make precise calculations and check the validity of the results in the context of the problem.

PLATO 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

Grade 3

Number Sense

1.0 Students understand place value of whole numbers.

1.1 Count, read, and write whole numbers to 10,000.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
 - Counting Numbers
- Whole Numbers 10–99

- Whole Numbers 100–999
- Numbers 10–999 Review
- Millions/Billions and Trillions

1.2 Compare and order whole numbers to 10,000.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
 - Whole Numbers 0–9
- Whole Numbers 0–9 Review

- Whole Numbers 10–99
- Numbers 10–999 Review

1.3 Identify the place value for each digit in numbers to 10,000.

PLATO Math Fundamentals

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

1.5 Use expanded notation to represent numbers (e.g., $3,206 = 3,000 + 200 + 6$).

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
 - Numbers 10–999 Review

2.0 Students calculate and solve problems involving addition, subtraction, multiplication, and division.

2.1 Find the sum or difference of two whole numbers between 0 and 10,000.

PLATO Math Fundamentals

- Addition
 - Addition Facts 1
 - Addition Facts 2
 - Addition Skills 1
 - Addition Skills 2
 - Addition Skills 3
 - Addition Skills 4

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

2.2 Memorize to automaticity the multiplication table for numbers between 1 and 10.

PLATO Math Fundamentals

- Multiplication
 - Multiplication Facts 1
 - Multiplication Facts 2

2.3 Use the inverse relationship of multiplication and division to compute and check results.

PLATO Math Fundamentals

- Division
 - Meaning of Division
 - Division Facts
- Fractions
 - Dividing Fractions 1

2.4 Solve simple problems involving multiplication of multi-digit numbers by one-digit numbers ($3,671 \times 3 = \underline{\quad}$).

PLATO Math Fundamentals

- Multiplication
 - Multiplication Skills 5
 - Multiplication Skills 7
 - Multiplication Review II

2.5 Solve division problems in which a multi-digit number is evenly divided by a one-digit number ($135/5 = \underline{\quad}$).

PLATO Math Fundamentals

- Division
 - Division Skills 5
 - Division Skills 7
- Division Skills 8
- Division Review II

2.6 Understand the special properties of 0 and 1 in multiplication and division.

PLATO Math Fundamentals

- Addition
 - Addition Properties
- Multiplication
 - Multiplication Properties 1
- Division
 - Division Facts

2.8 Solve problems that require two or more of the skills mentioned above.

PLATO Math Fundamentals

- Subtraction
 - Meaning of Subtraction
- Division
 - Meaning of Division
- Division Facts
- Fractions
 - Dividing Fractions 1

3.0 Students understand the relationship between whole numbers, simple fractions, and decimals.

3.1 Compare fractions represented by drawings or concrete materials to show equivalency and to add and subtract fractions in context (e.g., 1/2 of a pizza is the same amount as 2/4 of another pizza that is the same size; show that 3/8 is larger than 1/4.)

PLATO Math Fundamentals

- Fractions
 - Meaning of Fractions
 - Equivalent Fractions
 - Comparing Fractions
 - Basic Terms Review
 - Adding and Subtracting Fractions 1
 - Adding and Subtracting Fractions 2
- Subtracting Mixed Numbers 2
- Adding and Subtracting Fractions Review
- Problem Solving 4
- Ratio/Proportion/Percent
- Ratio Concepts
- Ratio/Proportion/Percent Review

3.2 Add and subtract simple fractions (e.g., determine that 1/8 + 3/8 is the same as 1/2).

PLATO Math Fundamentals

- Fractions
 - Adding and Subtracting Fractions 1
 - Adding and Subtracting Fractions Review

3.3 Solve problems involving addition, subtraction, multiplication, and division of money amounts in decimal notation and multiply and divide money amounts in decimal notation by using whole-number multipliers and divisors.

PLATO Math Fundamentals

- Subtraction
 - Problem Solving 1

3.4 Know and understand that fractions and decimals are two different representations of the same concept (e.g., 50 cents is 1/2 of a dollar, 75 cents is 3/4 of a dollar).

PLATO Math Fundamentals

- Fractions
 - Equivalent Fractions
 - Basic Terms Review
 - Subtracting Mixed Numbers 2
 - Problem Solving 4
- Decimals
 - Decimal Fractions 1
- Decimal Fractions 2
- Decimals Review
- Ratio/Proportion/Percent
- Ratio Concepts
- Percent Concepts 1
- Percent Concepts 2
- Ratio/Proportion/Percent Review

Algebra and Functions

1.0 Students select appropriate symbols, operations and properties to represent, describe, simplify, and solve simple number relationships.

1.1 Represent relationships of quantities in the form of mathematical expressions, equations, or inequalities.

PLATO Math Fundamentals

- Subtraction
- Meaning of Subtraction

1.5 Recognize and use the commutative and associative properties of multiplication (e.g., if $5 \times 7 = 35$, then what is 7×5 ?, if $5 \times 7 \times 3 = 105$, then what is $7 \times 3 \times 5$?).

PLATO Math Fundamentals

- Addition
- Addition Properties

- Multiplication
- Multiplication Facts 1
- Multiplication Facts 2
- Multiplication Properties 1

2.0 Students represent simple functional relationships.

2.2 Extend and recognize a linear pattern by its rules (e.g., the number of legs on a given number of horses may be calculated by counting by 4s or by multiplying the number of horses by 4).

PLATO Math Fundamentals

- Fractions
- Multiples and Common Denominators

Measurement and Geometry

1.0 Students choose and use appropriate units and measurement tools to quantify the properties of objects.

1.1 Choose the appropriate tools and units (metric and U.S.) and estimate and measure the length, liquid volume, and weight/mass of given objects.

PLATO Math Fundamentals

- Geometry and Measurement
- Linear Measurement
- Measurement Review

1.2 Estimate or determine the area and volume of solid figures by covering them with squares or by counting the number of cubes that would fill them.

PLATO Math Fundamentals

- Geometry and Measurement
- Area Measurement
- Volume and Capacity Measurement
- Measurement Review

2.0 Students describe and compare the attributes of plane and solid geometric figures and use their understanding to show relationships and solve problems.

2.2 Identify attributes of triangles (e.g., two equal sides for the isosceles triangle, three equal sides for the equilateral triangle, right angle for the right triangle).

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Basic Figures Review

2.3 Identify attributes of quadrilaterals (e.g., parallel sides for the parallelogram, right angles for the rectangle, equal sides and right angles for the square).

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Basic Figures Review

2.5 Identify, describe, and classify common three-dimensional geometric objects (e.g., cube, rectangular solid, sphere, prism, pyramid, cone, cylinder).

PLATO Math Fundamentals

- Geometry and Measurement
- Common 3-Dimensional Figures
- Basic Figures Review

2.6 Identify the common solid objects that are the components needed to make a more complex solid object.

PLATO Math Fundamentals

- Geometry and Measurement
- Common 3-Dimensional Figures
- Basic Figures Review

Mathematical Reasoning

2.0 Students use strategies, skills, and concepts in finding solutions.

2.2 Apply strategies and results from simpler problems to more complex problems.

PLATO Math Fundamentals

- | | |
|--|---|
| <ul style="list-style-type: none"> ·Subtraction ·Problem Solving 1 ·Multiplication ·Problem Solving 2 ·Division ·Problem Solving 3 | <ul style="list-style-type: none"> ·Fractions ·Problem Solving 4 ·Decimals ·Problem Solving 5 ·Ratio/Proportion/Percent ·Problem Solving 6 ·Geometry and Measurement ·Problem Solving 7 |
|--|---|

2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.

PLATO 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

2.6 Make precise calculations and check the validity of the results from the context of the problem.

PLATO 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

3.0 Students move beyond a particular problem by generalizing to other situations.

3.2 Note method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.

PLATO 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

3.3 Develop generalizations of the results obtained and apply them in other circumstances.

PLATO 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

Grade 4
Number Sense

1.0 Students understand place value of whole numbers and decimals to two decimal places, how these relate to simple fractions, and use concepts of negative numbers.

1.1 Read and write whole numbers in the millions.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 100–999
- Numbers 10–999 Review
- Hundreds and Thousands
- Millions/Billions and Trillions

1.2 Order and compare whole numbers and decimals to two decimal places.

PLATO Math Fundamentals

- Basic Number Ideas - Beginning
- Whole Numbers 0–9
- Whole Numbers 0–9 Review
- Whole Numbers 10–99
- Whole Numbers 100–999
- Numbers 10–999 Review
- Hundreds and Thousands
- Millions/Billions and Trillions
- Decimals
- Decimal Fractions 2
- Decimals Review

1.5 Explain different interpretations of fractions, for example, parts of a whole, parts of a set, and division of whole numbers by whole numbers; explain equivalents of fractions (see Standard 4.0).

PLATO Math Fundamentals

- Fractions
- Meaning of Fractions
- Equivalent Fractions
- Comparing Fractions
- Basic Terms Review
- Subtracting Mixed Numbers 2
- Problem Solving 4
- Ratio/Proportion/Percent
- Ratio Concepts
- Ratio/Proportion/Percent Review

1.6 Write tenths and hundredths in decimal and fraction notation and know the fraction and decimal equivalents for halves and fourths (e.g., $1/2 = 0.5$ or $.50$; $7/4 = 1 \frac{3}{4} = 1.75$).

PLATO Math Fundamentals

- Fractions
- Equivalent Fractions
- Basic Terms Review
- Subtracting Mixed Numbers 2
- Problem Solving 4
- Decimals
- Decimal Fractions 1
- Decimal Fractions 2
- Decimals Review
- Ratio/Proportion/Percent
- Ratio Concepts
- Percent Concepts 1
- Percent Concepts 2
- Ratio/Proportion/Percent Review

1.7 Write the fraction represented by a drawing of parts of a figure; represent a given fraction by using drawings; and relate a fraction to a simple decimal on a number line.

PLATO Math Fundamentals

- Fractions
 - Meaning of Fractions
 - Equivalent Fractions
 - Comparing Fractions
 - Basic Terms Review
 - Adding and Subtracting Fractions 1
 - Percent Concepts 2
 - Ratio/Proportion/Percent Review

- Decimals
 - Decimal Fractions 1
 - Decimal Fractions 2
 - Decimals Review
- Ratio/Proportion/Percent
 - Ratio Concepts
 - Percent Concepts 1

1.9 Identify on a number line the relative position of positive fractions, positive mixed numbers, and positive decimals to two decimal places.

PLATO Math Fundamentals

- Fractions
 - Adding and Subtracting Fractions 1

2.0 Students extend their use and understanding of whole numbers to the addition and subtraction of simple decimals.

2.1 Estimate and compute the sum or difference of whole numbers and positive decimals to two places.

PLATO Math Fundamentals

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

- Subtraction
 - Subtraction Facts
 - Subtraction Skills 1
 - Subtraction Skills 2
 - Subtraction Skills 3
 - Subtraction Skills 4
 - Subtraction Review
- Decimals
 - Adding and Subtracting Decimals
 - Decimals Review

2.2 Round two-place decimals to one decimal or the nearest whole number and judge the reasonableness of the rounded answer.

PLATO Math Fundamentals

- Decimals
 - Decimal Fractions 2
 - Decimals Review

3.0 Students solve problems involving addition, subtraction, multiplication, and division of whole numbers and understand the relationships among the operations.

3.1 Demonstrate an understanding of, and the ability to use, standard algorithms for addition and subtraction of multi-digit numbers.

PLATO Math Fundamentals

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

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

3.2 Demonstrate an understanding of standard algorithms for multiplying a multi-digit number by a 2-digit number and for dividing a multi-digit number by a 1-digit number; use relationships between them to simplify computations and to check results.

PLATO Math Fundamentals

- Multiplication
 - Meaning of Multiplication
 - Multiplication Skills 5
 - Multiplication Skills 7
 - Multiplication Review II
- Division
 - Meaning of Division
 - Division Facts

- Division Skills 1
- Division Skills 2
- Division Skills 3
- Division Review I
- Division Skills 4
- Division Skills 6
- Division Review II
- Fractions
 - Dividing Fractions 1

3.3 Solve problems involving multiplication of multi-digit numbers by two-digit numbers.

PLATO Math Fundamentals

- Multiplication
 - Multiplication Skills 5
 - Multiplication Skills 7
 - Multiplication Review II

3.4 Solve problems involving division of multi-digit numbers by one-digit numbers.

PLATO Math Fundamentals

- Division
 - Division Skills 1
 - Division Skills 2
 - Division Skills 3
 - Division Review I

- Division Skills 4
- Division Skills 5
- Division Skills 6
- Division Skills 7
- Division Skills 8
- Division Review II

Measurement and Geometry

1.0 Students understand perimeter and area.

1.1 Measure the area of rectangular shapes by using appropriate units, square centimeter, square meter, square kilometer, square inches, square yard, square mile.

PLATO Math Fundamentals

- Geometry and Measurement
- Area Measurement
- Measurement Review

1.2 Recognize that rectangles that have the same area can have different perimeters.

PLATO Math Fundamentals

- Geometry and Measurement
- Area Measurement
- Measurement Review

1.3 Understand that rectangles that have the same perimeter can have different areas.

PLATO Math Fundamentals

- Geometry and Measurement
- Area Measurement
- Measurement Review

1.4 Understand and use formulas to solve problems involving perimeters and areas of rectangles and squares. Use these formulas to find the areas of more complex figures by dividing the figures into basic shapes.

PLATO Math Fundamentals

- Geometry and Measurement
- Area Measurement
- Measurement Review
- Problem Solving 7

3.0 Students demonstrate an understanding of plane and solid geometric objects and use this knowledge to show relationships and solve problems.

3.1 Identify lines that are parallel and perpendicular.

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 1

3.2 Identify the radius and diameter of a circle.

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2

3.3 Identify congruent figures.

PLATO Math Fundamentals

- Geometry and Measurement
- Figure Comparison
- Basic Figures Review

3.4 Identify figures that have bilateral and rotational symmetry.

PLATO Math Fundamentals

- Geometry and Measurement
- Figure Comparison
- Basic Figures Review

3.5 Know the definitions of a right angle, an acute angle, and an obtuse angle. Understand that 90° , 180° , 270° , and 360° are associated, respectively, with $1/4$, $1/2$, $3/4$, and full turns

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 1

3.6 Visualize, describe, and make models of geometric solids in terms of the number of faces, edges, and vertices; interpret 2-D representations of 3-D objects; and draw patterns for a solid, that when cut and folded, will make a model of the solid.

PLATO Math Fundamentals

- Geometry and Measurement
- Common 3-Dimensional Figures
- Basic Figures Review

3.7 Know the definitions of different triangles (e.g., equilateral, isosceles, scalene) and identify their attributes.

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Basic Figures Review

3.8 Know the definition of different quadrilaterals (e.g., rhombus, square, rectangle, parallelogram, trapezoid).

PLATO Math Fundamentals

- Geometry and Measurement
- Plane Figures 2
- Basic Figures Review

Measurement and Geometry

2.0 Students use strategies, skills, and concepts in finding solutions.

2.2 Apply strategies and results from simpler problems to more complex problems.

PLATO Math Fundamentals

- | | |
|--|---|
| <ul style="list-style-type: none"> ·Subtraction ·Problem Solving 1 ·Multiplication ·Problem Solving 2 ·Division ·Problem Solving 3 | <ul style="list-style-type: none"> ·Fractions ·Problem Solving 4 ·Decimals ·Problem Solving 5 ·Ratio/Proportion/Percent ·Problem Solving 6 ·Geometry and Measurement ·Problem Solving 7 |
|--|---|

2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.

PLATO 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

2.6 Make precise calculations and check the validity of the results from the context of the problem.

PLATO 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

3.0 Students move beyond a particular problem by generalizing to other situations.

3.2 Note method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.

PLATO 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

3.3 Develop generalizations of the results obtained and apply them in other circumstances.

PLATO 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

**Grade 5
Number Sense**

1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.

PLATO Math Fundamentals

- | | |
|---------------------------------|----------------------------------|
| ·Basic Number Ideas - Beginning | ·Millions/Billions and Trillions |
| ·Whole Numbers 100–999 | ·Decimals |
| ·Numbers 10–999 Review | ·Decimal Fractions 1 |
| ·Hundreds and Thousands | ·Decimal Fractions 2 |
| | ·Decimals Review |

1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number.

PLATO Math Fundamentals

- | | |
|------------------------------|----------------------------------|
| ·Fractions | ·Decimal Fractions 2 |
| ·Equivalent Fractions | ·Decimals Review |
| ·Basic Terms Review | ·Ratio/Proportion/Percent |
| ·Subtracting Mixed Numbers 2 | ·Ratio Concepts |
| ·Problem Solving 4 | ·Percent Concepts 1 |
| ·Decimals | ·Percent Concepts 2 |
| ·Decimal Fractions 1 | ·Ratio/Proportion/Percent Review |
| | ·Problem Solving 6 |

1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers.

PLATO Math Fundamentals

- Fractions
- Adding and Subtracting Fractions 1

2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.

PLATO Math Fundamentals

- | | |
|----------------------------------|--------------------|
| ·Decimals | ·Dividing Decimals |
| ·Adding and Subtracting Decimals | ·Decimals Review |
| ·Multiplying Decimals | |

2.2 Demonstrate proficiency with division, including division with positive decimals and long division with multi-digit divisors.

PLATO Math Fundamentals

- Division
- Division Facts
- Division Skills 1
- Division Skills 2
- Division Skills 3
- Division Review I
- Division Skills 4
- Division Skills 5
- Division Skills 6
- Division Skills 7
- Division Skills 8
- Division Review II
- Decimals
- Dividing Decimals
- Decimals Review

2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in simplest form.

PLATO Math Fundamentals

- Fractions
- Equivalent Fractions
- Improper Fractions and Mixed Numbers
- Basic Terms Review
- Adding and Subtracting Fractions 1
- Adding and Subtracting Fractions 2
- Adding Mixed Numbers
- Subtracting Mixed Numbers 1
- Subtracting Mixed Numbers 2
- Adding and Subtracting Fractions Review

2.4 Understand the concept of multiplication and division of fractions.

PLATO Math Fundamentals

- Fractions
- Multiplying Fractions
- Dividing Fractions 1
- Dividing Fractions 2
- Multiplying and Dividing Mixed Numbers 2
- Multiplication and Division Review

2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.

PLATO Math Fundamentals

- Fractions
- Multiplying Fractions
- Dividing Fractions 1
- Dividing Fractions 2
- Multiplying and Dividing Mixed Numbers 1
- Multiplying and Dividing Mixed Numbers 2
- Multiplication and Division Review
- Problem Solving 4

Algebra and Functions

1.0 Students use variables in simple expressions, compute the value of the expression for specific values of the variable, and plot and interpret the results.

1.3 Know and use the distributive property in equations and expressions with variables.

PLATO Math Fundamentals

- Multiplication
- Multiplication Properties 2

Measurement and Geometry

1.0 Students understand and compute the volumes and areas of simple objects.

1.1 Derive and use the formula for the area of a right triangle and of a parallelogram by comparing it with the formula for the area of a rectangle.

PLATO Math Fundamentals

- Geometry and Measurement
- Area Measurement
- Measurement Review
- Problem Solving 7

1.3 Understand the concept of volume and use the appropriate units in common measuring systems (i.e., cubic centimeter [cm³], cubic meter [m³], cubic inches [in³], cubic yard [yd³]) to compute the volume of rectangular solids.

PLATO Math Fundamentals

- Geometry and Measurement
- Volume and Capacity Measurement
- Measurement Review

1.4 Differentiate between, and use appropriate units of measures for, two- and three-dimensional objects (i.e., find the perimeter, area, volume).

PLATO Math Fundamentals

- Geometry and Measurement
- Volume and Capacity Measurement
- Measurement Review

Statistics, Data Analysis, and Probability

1.0 Students display, analyze, compare, and interpret different data sets, including data sets of different sizes.

1.3 Use fractions and percentages to compare data sets of different size.

PLATO Math Fundamentals

- Fractions
- Equivalent Fractions
- Comparing Fractions
- Basic Terms Review

2.0 Students use strategies, skills and concepts in finding solutions.

2.2 Apply strategies and results from simpler problems to more complex problems.

PLATO Math Fundamentals

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

2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.

PLATO Math Fundamentals

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

2.6 Make precise calculations and check the validity of the results from the context of the problem.

PLATO 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

3.0 Students move beyond a particular problem by generalizing to other situations.

3.2 Note method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.

PLATO Math Fundamentals

- Subtraction
 - Problem Solving 1
- Multiplication
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3.3 Develop generalizations of the results obtained and apply them in other circumstances.

PLATO Math Fundamentals

- Subtraction
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