

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

Mathematics

Grade K–2

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 Expeditions A**
- **PLATO® Math Expeditions B**
- **PLATO® Math Expeditions C**

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 Expeditions A

- Numeration A - Recognition
 - Identify groups of one, two, three
 - Identify groups zero through seven
 - Identify groups of 8 through 12
 - Identify groups of 11 through 19
 - Identify groups of 20 through 29
- Numeration A - Compare
 - Same, more, fewer
 - One more, one fewer, as many as
- Numeration A - Order
 - Order numbers 1 through 10

- Order numbers 11 through 31
- Order numbers through 31

PLATO Math Expeditions B

- Numeration B - Number Recognition
 - Identify and count 0-6
 - Identify and count 7-12
- Numeration B - Compare
 - Compare numbers through 99
- Numeration B - Order
 - Order numbers 1 through 10
 - Order numbers through 99

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

PLATO Math Expeditions A

- Numeration A - Recognition
 - Identify groups of one, two, three
 - Identify groups zero through seven
 - Identify groups of 8 through 12
 - Identify groups of 11 through 19
 - Identify groups of 20 through 29
- Numeration A - Compare
 - Same, more, fewer
 - One more, one fewer, as many as
- Numeration A - Order
 - Order numbers 1 through 10
 - Order numbers 11 through 19
 - Order numbers through 31

PLATO Math Expeditions B

- Numeration B - Number Recognition
 - Identify and count 0-6
 - Identify and count 7-12
 - Count by fives
- Numeration B - Compare
 - Compare numbers through 99
- Numeration B - Order
 - Order numbers 1 through 10
 - Order numbers through 99
- Numeration B - Place Value
 - Identify tens and ones to 99
 - Identify and write tens to 90

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

PLATO Math Expeditions A

- Numeration A - Recognition
 - Identify groups of one, two, three
 - Identify groups zero through seven
 - Identify groups of 8 through 12
 - Identify groups of 11 through 19
 - Identify groups of 20 through 29
- Numeration A - Compare
 - Same, more, fewer
 - One more, one fewer, as many as
- Numeration A - Order
 - Order numbers 1 through 10
 - Order numbers 11 through 19
 - Order numbers through 31

PLATO Math Expeditions B

- Numeration B - Number Recognition
 - Identify and count 0-
 - Identify and count 7-12
 - Count by fives
- Numeration B - Compare
 - Compare numbers through 99
- Numeration B - Order
 - Order numbers 1 through 10
 - Order numbers through 99
- Numeration B - Place Value
 - Identify tens and ones to 99
 - Identify and write tens to 90

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 Expeditions A

- Number Operations A - Addition
- Join two groups: identify total
- Add two numbers: sums to 6

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to 10
- Add with zero
- Add two numbers with sums to 12
- Add two 2-digit numbers

- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

- Number Operations B - Subtraction
- Subtract numbers through 7
- Subtract with zero
- Subtract numbers 9, 10, 11, 12
- Subtract numbers 13 through 18

Algebra and Functions

1.0 Students sort and classify objects.

1.1 Identify, sort and classify objects by attribute and identify objects that do not belong to a particular group (e.g., all these balls are green, those are red).

PLATO Math Expeditions A

- Numeration A - Classify
- Identify objects: same size
- Identify objects: same color/shape

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.

1.1 Compare the length, weight and capacity of objects by making direct comparisons with reference objects (e.g., note which object is shorter, longer, taller, lighter, heavier, or holds more).

PLATO Math Expeditions A

- Measurement A - Length
- Length using informal units
- Measurement A - Mass, Weight
- Objects - heavier

- Measurement A - Capacity
- Which holds more or less?

PLATO Math Expeditions B

- Measurement B - Mass, Weight
- Measure weight

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 Expeditions A

- Time A - Time
- Tell time to the hour

PLATO Math Expeditions B

- Time B - Time
- Tell time to the half hour

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 Expeditions A

- Time A - Time
- Tell time to the hour

PLATO Math Expeditions B

- Time B - Time
- Tell time to the half hour

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 Expeditions A

- Geometry A - Geometry
- Circles, squares, triangles

PLATO Math Expeditions B

- Geometry B - Geometry
- Triangles/rectangles/circles/squares
- Cubes/cylinders/spheres/cones

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

PLATO Math Expeditions A

- Geometry A - Geometry
- Circles, squares, triangles

PLATO Math Expeditions B

- Geometry B - Geometry
- Triangles/rectangles/circles/squares
- Cubes/cylinders/spheres/cones

Mathematical Reasoning

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

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

PLATO Math Expeditions A

- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Subtraction
- Subtract numbers 9, 10, 11, 12
- Subtract with two 2-digit numbers

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 Expeditions A

- Numeration A - Recognition
 - Identify groups of one, two, three
 - Identify groups zero through seven
 - Identify groups of 8 through 12
 - Identify groups of 11 through 19
 - Identify groups of 20 through 29
- Numeration A - Order
 - Order numbers 1 through 10
 - Order numbers 11 through 19
 - Order numbers through

PLATO Math Expeditions B

- Numeration B - Number Recognition
 - Identify and count 0-6
 - Identify and count 7-12
 - Count by fives

- Numeration B - Compare
 - Compare numbers through 99
- Numeration B - Order
 - Order numbers 1 through 10
 - Order numbers through 99
- Numeration B - Place Value
 - Identify tens and ones to 99
 - Identify and write tens to

PLATO Math Expeditions C

- Numeration C - Order
 - Order numbers through 99
- Numeration C - Place Value
 - Identify tens & ones to 99
 - Write standard form to 99
 - Write standard form to 999

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

PLATO Math Expeditions A

- Numeration A - Order
 - Order numbers 1 through 10
 - Order numbers 11 through 19
 - Order numbers through 31

PLATO Math Expeditions B

- Numeration B - Compare
 - Compare numbers through 99

- Numeration B - Order
 - Order numbers 1 through 10
 - Order numbers through 99

PLATO Math Expeditions C

- Numeration C - Compare
 - Compare numbers through 99
- Numeration C - Order
 - Order numbers through 99
 - Order numbers through 999

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 Expeditions A

- Numeration A - Recognition
 - Identify groups zero through seven
 - Identify groups of 8 through 12
 - Identify groups of 11 through 19
 - Identify groups of 20 through 29

PLATO Math Expeditions B

- Numeration B - Number Recognition
 - Identify and count 0-6

- Identify and count 7-12
- Count by fives
- Numeration B - Place Value
 - Identify tens and ones to 99
 - Identify and write tens to 90

PLATO Math Expeditions C

- Numeration C - Place Value
 - Identify tens & ones to 99

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 Expeditions A

- Numeration A - Recognition
 - Identify groups of one, two, three
 - Identify groups zero through seven
 - Identify groups of 8 through 12
 - Identify groups of 11 through 19
 - Identify groups of 20 through
- Numeration A - Compare
 - Same, more, fewer
 - One more, one fewer, as many as

PLATO Math Expeditions B

- Numeration B - Number Recognition
 - Identify and count 0-6
 - Identify and count 7-12

- Count by fives
- Numeration B - Place Value
 - Identify tens and ones to 99
 - Identify and write tens to 90
- Number Operations B - Addition
 - Add two 2-digit numbers

PLATO Math Expeditions C

- Numeration C - Place Value
 - Identify tens & ones to 99
 - Write standard form to 99
 - Write standard form to 999
- Number Operations C - Subtraction
 - Renaming readiness

1.5 Identify and know the value of coins and show different combinations of coins that equal the same value.

PLATO Math Expeditions A

- Money A - Money
 - Identify value penny, nickel, dime

PLATO Math Expeditions B

- Money B - Money
 - Identify coins to 99 cents

PLATO Math Expeditions C

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

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 Expeditions A

- Number Operations A - Addition
- Join two groups: identify
- Add two numbers: sums to 6
- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to 10
- Add with zero
- Add two numbers with sums to 12

- Number Operations B - Subtraction
- Subtract numbers through 7
- Subtract with zero
- Subtract numbers 9, 10, 11, 12
- Subtract numbers 13 through 18

PLATO Math Expeditions C

- Number Operations C - Addition
- Add two numbers with sums to 10
- Add two numbers with sums to 12
- Add two numbers with sums to 18
- Number Operations C - Subtraction
- Subtract numbers through 12
- Subtract numbers through 18

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

PLATO Math Expeditions A

- Numeration A - Recognition
- Identify groups of one, two, three
- Identify groups zero through seven
- Identify groups of 8 through 12
- Identify groups of 11 through 19
- Identify groups of 20 through 29
- Numeration A - Compare
- Same, more, fewer
- One more, one fewer, as many as
- Numeration A - Order
- Order numbers 1 through 10
- Order numbers 11 through 19
- Order numbers through

PLATO Math Expeditions B

- Numeration B - Number Recognition
- Identify and count 0-6
- Identify and count 7-12
- Numeration B - Order
- Order numbers 1 through 10
- Order numbers through 99
- Numeration B - Place Value
- Identify and write tens to 90

PLATO Math Expeditions C

- Numeration C - Number Recognition
- Count by twos
- Numeration C - Order
- Order numbers through 99
- Order numbers through 999

2.4 Count by 2s, 5s and 10s to 100.

PLATO Math Expeditions B

- Numeration B - Number Recognition
- Count by fives
- Numeration B - Place Value
- Identify and write tens to 90

PLATO Math Expeditions C

- Numeration C - Number Recognition
- Count by twos

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

PLATO Math Expeditions A

- Number Operations A - Addition
- Join two groups: identify total
- Add two numbers: sums to 6
- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to 10
- Add with zero
- Add two numbers with sums to 12

- Add two 2-digit numbers
- Number Operations B - Subtraction
- Subtract numbers through 7
- Subtract with zero
- Subtract numbers 9, 10, 11, 12

PLATO Math Expeditions C

- Number Operations C - Addition
- Add two numbers with sums to 10
- Add two numbers with sums to 12
- Number Operations C - Subtraction
- Subtract numbers through 12
- Subtract numbers through 18

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

PLATO Math Expeditions A

- Number Operations A - Addition
- Join two groups: identify total
- Add two numbers: sums to 6
- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to 10
- Add with zero
- Add two numbers with sums to 12
- Number Operations B - Subtraction
- Subtract numbers through 7

- Subtract with zero
- Subtract numbers 9, 10, 11, 12
- Subtract numbers 13 through 18

PLATO Math Expeditions C

- Number Operations C - Addition
- Add two numbers with sums to 10
- Add two numbers with sums to 12
- Add two numbers with sums to 18
- Add a 1-digit to a 2-digit number
- Number Operations C - Subtraction
- Subtract numbers through 12
- Subtract numbers through 18

2.7 Find the sum of three one-digit numbers.

PLATO Math Expeditions B

- Number Operations B - Addition
- Add three numbers with sums to 10

PLATO Math Expeditions C

- Number Operations C - Addition
- Add three numbers with sums to 12
- Add three numbers with sums to 18

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 Expeditions A

- Numeration A - Order
- Order numbers 1 through 10
- Order numbers 11 through 19
- Order numbers through 31

PLATO Math Expeditions B

- Numeration B - Compare
- Compare numbers through 99

- Numeration B - Order
- Order numbers 1 through 10
- Order numbers through 99

PLATO Math Expeditions C

- Numeration C - Compare
- Compare numbers through 99
- Numeration C - Order
- Order numbers through 99
- Order numbers through 999

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 Expeditions A

- Number Operations A - Addition
- Join two groups: identify total
- Add two numbers: sums to 6
- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to
- Add with zero
- Add two numbers with sums to 12

- Number Operations B - Subtraction
- Subtract numbers through 7
- Subtract with zero
- Subtract numbers 9, 10, 11, 12
- Subtract numbers 13 through 18

PLATO Math Expeditions C

- Number Operations C - Addition
- Add two numbers with sums to 10
- Add two numbers with sums to 12
- Add two numbers with sums to
- Number Operations C - Subtraction
- Subtract numbers through 12
- Subtract numbers through 18

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

PLATO Math Expeditions A

- Number Operations A - Addition
- Join two groups: identify total
- Add two numbers: sums to 6
- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to 10
- Number Operations B - Subtraction
- Subtract numbers through 7
- Subtract with zero

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

PLATO Math Expeditions A

- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Subtraction
- Subtract numbers 9, 10, 11, 12
- Subtract with two 2-digit numbers

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 Expeditions A

- Measurement A - Length
- Length using informal units
- Measurement A - Mass, Weight
- Objects - heavier
- Measurement A - Capacity
- Which holds more or less?

PLATO Math Expeditions B

- Measurement B - Length
- Measure with an inch ruler

- Measurement B - Mass, Weight
- Measure weight
- Measurement B - Capacity
- Convert cups, pints, quarts

PLATO Math Expeditions C

- Measurement C - Length
- Identify units of length
- Measurement C - Capacity
- Identify units of capacity

1.2 Tell time to the nearest half hour and related time to events (e.g., before/after, shorter/longer).

PLATO Math Expeditions B

- Time B - Time
- Tell time to the half hour

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 Expeditions A

- Geometry A - Geometry
- Circles, squares, triangles

PLATO Math Expeditions B

- Geometry B - Geometry
- Triangles/rectangles/circles/squares

PLATO Math Expeditions C

- Geometry C - Geometry
- Identify plane shapes

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 Expeditions B

- Geometry B - Geometry
- Cubes/cylinders/spheres/cones

PLATO Math Expeditions C

- Geometry C - Geometry
- Identify solid shapes

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 Expeditions A

- Numeration A - Position
- Locate objects: inside, outside, on
- Locate objects: left, right

- Locate objects: after, between
- Locate objects: nearest, farthest
- Locate objects: above, below

Statistics, Data Analysis, and Probability

1.0 Students organize, represent, and compare data by category on simple graphs and charts.

1.1 Sort objects and data by common attributes and describe the categories.

PLATO Math Expeditions A

- Numeration A - Classify
- Identify objects: same size
- Identify objects: same color/shape

1.2 Represent and compare data (e.g., largest, smallest, most often, least often) by using pictures, bar graphs, tally charts and picture graphs.

PLATO Math Expeditions B

- Graphs B - Graphs
- Solve problems: use a bar graph

PLATO Math Expeditions C

- Graphs C - Graphs
- Solve problems: pictographs

Mathematical Reasoning

2.0 Students solve problems and justify their reasoning.

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

PLATO Math Expeditions A

- Number Operations A - Subtraction
- Remove objects from group
- Subtract numbers through 9

PLATO Math Expeditions B

- Number Operations B - Subtraction
- Subtract numbers 9, 10, 11, 12
- Subtract with two 2-digit numbers

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 Expeditions B

- Numeration B - Number Recognition
 - Identify and count 7-12
 - Count by fives
- Numeration B - Compare
 - Compare numbers through 99
- Numeration B - Order
 - Order numbers through 99
- Numeration B - Place Value
 - Identify tens and ones to 99
 - Identify and write tens to 90

- Number Operations B - Addition
 - Add two 2-digit numbers

PLATO Math Expeditions C

- Numeration C - Order
 - Order numbers through 99
 - Order numbers through 999
- Numeration C - Place Value
 - Identify tens & ones to 99
 - Write standard form to 99
 - Write standard form to 999
- Number Operations C - Subtraction
 - Renaming readiness

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

PLATO Math Expeditions B

- Numeration B - Number Recognition
 - Identify and count 0-6
 - Identify and count 7-12
 - Count by fives
- Numeration B - Place Value
 - Identify tens and ones to 99

- Identify and write tens to 90

PLATO Math Expeditions C

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

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

PLATO Math Expeditions B

- Numeration B - Compare
 - Compare numbers through 99
- Numeration B - Order
 - Order numbers 1 through 10
 - Order numbers through 99

PLATO Math Expeditions C

- Numeration C - Compare
 - Compare numbers through 99
- Numeration C - Order
 - Order numbers through 99
 - Order numbers through 999

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

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

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to 10
- Add with zero
- Add two numbers with sums to 12
- Add two 2-digit numbers
- Number Operations B - Subtraction
- Subtract numbers through 7
- Subtract with zero
- Subtract numbers 9, 10, 11, 12
- Subtract with two 2-digit numbers
- Subtract numbers 13 through 18

- Add two numbers with sums to 12
- Add two numbers with sums to 18
- Add two 2-digits
- Add two 2-digits using money
- Number Operations C - Subtraction
- Subtract numbers through 12
- Subtract numbers through 18
- Renaming readiness
- Subtract 2-digit numbers
- Subtract multiples of 10
- Subtract two 2-digits
- Subtract with money
- Subtract 3-digit numbers

PLATO Math Expeditions C

- Number Operations C - Addition
- Add two numbers with sums to 10

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

PLATO Math Expeditions B

- Number Operations B - Addition
- Add two 2-digit numbers
- Number Operations B - Subtraction
- Subtract with two 2-digit numbers

- Add two 2-digits
- Add two 2-digits using money
- Number Operations C - Subtraction
- Renaming readiness
- Subtract 2-digit numbers
- Subtract multiples of 10
- Subtract two 2-digits
- Subtract with money
- Subtract 3-digit numbers

PLATO Math Expeditions C

- Number Operations C - Addition
- Add three numbers with sums to 12
- Add three numbers with sums to 18

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 Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to

- Add three numbers with sums to
- Number Operations C - Multiplication
- Multiply by twos
- Multiply by threes
- Multiply by fours
- Multiply by fives

PLATO Math Expeditions C

- Number Operations C - Addition
- Add three numbers with sums to 12

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

PLATO Math Expeditions C

- Number Operations C - Multiplication
- Multiply by twos
- Multiply by threes

- Multiply by fours
- Multiply by fives

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

PLATO Math Expeditions C

- Number Operations C - Multiplication
- Multiply by twos
- Multiply by threes

- Multiply by fours
- Multiply by fives

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 Expeditions B

- Fractions B - Fractions
- Identify $1/2$, $1/3$ & $1/4$

PLATO Math Expeditions C

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

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

PLATO Math Expeditions B

- Fractions B - Fractions
- Identify $1/2$, $1/3$ & $1/4$

PLATO Math Expeditions C

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

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 Expeditions B

- Fractions B - Fractions
- Identify $1/2$, $1/3$ & $1/4$

PLATO Math Expeditions C

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

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 Expeditions B

- Money B - Money
- Identify coins to 99 cents

PLATO Math Expeditions C

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

5.2 Know and use the decimal notation and the dollar and cents symbols for money.

PLATO Math Expeditions B

- Money B - Money
- Identify coins to 99 cents

PLATO Math Expeditions C

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

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 Expeditions B

- Number Operations B - Addition
- Add two numbers with sums to 12

PLATO Math Expeditions C

- Number Operations C - Addition
- Add three numbers with sums to 12
- Add two numbers with sums to 18
- Add three numbers with sums to 18

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

PLATO Math Expeditions B

- Number Operations B - Subtraction
- Subtract numbers 9, 10, 11, 12
- Subtract with two 2-digit numbers

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

PLATO Math Expeditions B

- Number Operations B - Subtraction
- Subtract numbers 9, 10, 11, 12
- Subtract with two 2-digit numbers

PLATO Math Expeditions C

- Graphs C - Graphs
- Solve problems: pictographs

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 Expeditions B

- Measurement B - Length
- Measure with an inch ruler

PLATO Math Expeditions C

- Measurement C - Length
- Identify units of length

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 Expeditions B

- Measurement B - Length
- Measure with an inch ruler
- Measurement B - Mass, Weight
- Measure weight

PLATO Math Expeditions C

- Measurement C - Length
- Identify units of length
- Measurement C - Capacity
- Identify units of capacity

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

PLATO Math Expeditions B

- Measurement B - Length
- Measure with an inch ruler

PLATO Math Expeditions C

- Measurement C - Length
- Identify units of length

1.4 Tell time to the nearest quarter hour and know relationships of time (e.g., minutes in an hour, days in a month, weeks in year).

PLATO Math Expeditions C

- Time C - Time
- Tell time to 5 minutes

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 Expeditions B

- Geometry B - Geometry
- Triangles/rectangles/circles/squares
- Cubes/cylinders/spheres/cones

PLATO Math Expeditions C

- Geometry C - Geometry
- Identify plane shapes
- Identify solid shapes

Statistics, Data Analysis, and Probability

1.0 Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations.

1.4 Ask and answer simple questions related to data representations.

PLATO Math Expeditions B

- Graphs B - Graphs
- Solve problems: use a bar graph

PLATO Math Expeditions C

- Graphs C - Graphs
- Solve problems: pictographs