MATHEMATICS

Course Description

2

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Series Description

The objective of the EduSystem **Mathematics K-6** series is to help students develop skills and mathematical concepts in accordance with the standards set forth by the Department of Education of Puerto Rico and the National Council of Teachers of Mathematics. The purpose of the series is to create awareness of why studying mathematical processes is important and how it is necessary for solving problems that relate to real-life situations.

Through its content, strategies, and techniques, the EduSystem **Mathematics K-6** series instills a deep understanding of the concepts, skills, and techniques necessary for the subsequent study of higher mathematics and applications. The way in which the topics, examples, and recommended applications are presented allows students to visualize, understand, and value the usefulness of mathematics in everyday life.

The EduSystem **Mathematics K-6** series covers the following areas and topics: number sense, counting, and cardinal numbers; operations and algebraic thought; numbers and operations in base ten; numbers and operations with fractions and ratios; proportional relationships; numeral systems; expressions and equations; measurement and data; statistics and probability, and geometry.

In each lesson, the objectives have been carefully aligned by taking into consideration the concepts and skills students need to establish connections between the different topics. The instructional focus is based upon conceptual understanding, skills development, and mathematical problems/solutions. It also focuses on the development of critical thinking skills which is the integral means of foundation for the students.

The EduSystem **Mathematics K-6** series encourages the direct application of what students learn and how they visualize the importance of mathematics as a universal discipline relating to society, community, organizations, and institutions. Furthermore, the incorporation of situations and real-life problems in each of the topics aims to awaken an interest in the study of mathematics for students.

Concept Development

The EduSystem **Mathematics K-6** series is directed toward developing a mastery of:

- ▶ Mathematical reasoning skills and their applications.

- ▶ Application of problem-solving processes and strategies.

- ▶ Use of technology as tools to access, analyze, and apply information in the solution of problems in their immediate surroundings.

General Objectives

The objectives of this Series are to:

- ▶ Help students develop an interest and appreciation for mathematics.

- ▶ Develop mathematical capability within students through experiences that stimulate their curiosity and focus it on investigation, problem solving, and communication.

- ▶ Promote that the students visualize mathematics as an integral whole and not as a group of isolated topics.

- ▶ Develop the problem-solving processes in students, as a cornerstone of encouragement, furthering the development of mathematical capacity.

- ▶ Stimulate within students the need of using language and academic vocabulary to communicate mathematical ideas.

- ▶ Develop mathematical reasoning and critical thinking skills that allow students to visualize mathematics as a relevant discipline in their lives.

- ▶ Emphasize the concepts of numbers, operations, and calculations so that they are correctly defined, conceived, and adequately applied.

- ▶ Promote the learning of concepts in geometry and measurement through hands-on experiences that incorporate experimentation and discovery of mathematical relationships using solid objects or manipulatives.

Course Structure

The Mathematics 2 course is composed of twelve units. Each unit is composed of lessons. Each lesson contains a presentation divided into sections that develop their individual topics. Each lesson also contains a descriptive log, activities, worksheets, and handouts related to the content and, as in most cases, website links and resources. The practice and review documents generally include word problems, as well as a section devoted solely to solving problems.

We invite you to get to know the presentation sections and the documents that are generally found in the course lessons.

The units are made up of the following:

Lessons

Each unit is composed of several lessons which are divided by topics. Furthermore, each lesson is comprised of the following:

Presentation

Each presentation is composed of the following sections:

Unit Opening

Each unit begins with an image which starts off the first lesson of the unit. This section presents the unit's theme as well as several questions in which the image or theme are explored.

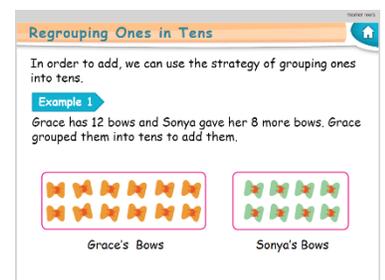# Introduction

Presentation of a situation and questions to be explored.

Topics to Be Developed

Sections of concept development, where mathematical ideas and concepts are explained. On some occasions, skills are developed from the situation presented in the introduction and other examples are offered.
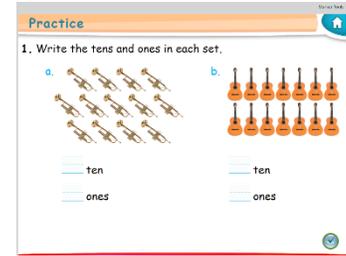
Practice

Lesson closure in which students apply what they learned through some exercise.

Think About It

A reasoning question is presented and identified with a lightbulb. The goal is to develop students' reasoning and analysis capacities.

Handouts and Worksheets

Think and Practice

It presents exercises and problems after every concept development section. It has activities that help practice, enrich, end reinforce the concepts learned throughout the lesson.

Homework

Practice for each concept building section. Students are provided with a reasonable number of exercises so that they can master the skills and concepts studied in the lesson.

Lesson 0

This lesson is composed of a series of unit documents and of formative and cumulative evaluation that can be used before, during, or after the study of each unit.

What I Know!

A pretest of the concepts and skills to be discussed within the unit.

Connection

Activity that initiates the unit. It relates Mathematics with other fields of study.

Problem Solving

It explains strategies and procedures for the development of problem-solving skills.

Unit review

Practice exercises that allow   students to confirm what they have learned in the unit.

Reviewing the Units

Practice exercises that allow the student to confirm what they have learned in previous units.

What I Learned

The skills and concepts learned in the unit are measured. It allows students to do a self-evaluation. The teacher may use it as a test.

Knowing Technology

It presents technology in its different manifestations, including the computer as well as all the gadgets present in our daily lives. It can be found in some units.

Think

It presents activities and includes mathematical reasoning exercises. It can be found in some units.

Unit Breakdown

Below is an itemization of the division of each unit in lessons, including the name of each lesson with its corresponding objectives, skills, and keywords.

Unit 1. Numbers up to 99

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Numbers up to 99**
   Code: C319G02U01L00
Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Tens**
   Code: C319G02U01L01
Objectives
▶ Identify, count, and prepare tens.
Keywords
▶ ones, tens

Lesson 2: **Ones and Tens**
   Code: C319G02U01L02
Objectives
▶ Complete amounts in tens and ones.
Keywords
▶ ones, tens

Lesson 3: **Place Value: Tens and ones**
   Code: C319G02U01L03
Objectives
▶ Identify the place value of a digit.
▶ Decompose a number according to its place value.
Keywords
▶ after, before, between, numbers, numerals, order.

Lesson 4:   **Comparing Numbers up to 99**
  Code: C319G02U01L04
    Objectives
      ▶ Identify and compare numerals up to 99.
      ▶ Identify the greater and lesser figure.
    Keywords
      ▶ greatest number, greater than, least number, less than.

Lesson 5:   **Ordering Numbers up to 99**
  Code: C319G02U01L05
    Objectives
      ▶ Organize numerals up to 99.
      ▶ Fill in numeral sequences up to 99.
    Keywords
      ▶ comparing numbers, greatest number, greater than, least number, less than, ordering numbers, sequence

Lesson 6:   **Ordinal Numbers**
  Code: C319G02U01L06
    Objectives
      ▶ Identify ordinal numbers from first to twelfth.
      ▶ Find a pattern.
    Keywords
      ▶ ordering numbers in a sequence, ordinal numbers, patterns.

Lesson 7:   **Odd and even numbers**
  Code: C319G02U01L07
    Objectives
      ▶ Identifies if a number is even or odd.
      ▶ Identifies whether the elements of a set represent an even or odd number.
    Keywords
      ▶ even, numbers, odd.

Unit 2: Numbers up to 1000

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Numbers up to 1000**

Code: C319G02U02L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Hundreds**

Code: C319G02U02L01

Objectives

▶ Identify, write, and draw hundreds.

Keywords

▶ hundreds.

Lesson 2: **Hundreds, Tens, and Ones**

Code: C319G02U02L02

Objectives

▶ Identify, write, and draw hundreds, tens, and ones.

Keywords

▶ hundreds, ones, tens.

Lesson 3: **Place Value**

Code: C319G02U02L03

Objectives

▶ Write the numbers according to the place value they occupy.

Keywords

▶ hundreds, ones, place value, tens

Lesson 4: **Reading and Writing Three and Four-Digit Numbers**

Code: C319G02U02L04

Objectives

▶ Read and write three and four-digit numbers.

Keywords

▶ digit, read, write.

Lesson 5:   **Comparing and Ordering Numbers**

Code: C319G02U02L05

Objectives

- ▶ Use the symbols of greater than, less than or equal to compare numbers.
- ▶ Place numbers in order.

Keywords

- ▶ compare, equal to, greater than, less than, order.

Unit 3: Combinations of Addition and Subtraction

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Combinations of Addition and Subtraction**
   Code: C319G02U03L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Properties of Addition**
   Code: C319G02U03L01

Objectives
- ▶ Add numbers.
- ▶ Apply the properties of addition. (identity, commutative and associative).

Keywords
- ▶ addends, associative property of addition, identity property of addition, properties of addition, sum, zero.

Lesson 2: **Counting Forward**
   Code: C319G02U03L02

Objectives
- ▶ Add by counting forward.

Keywords
- ▶ add, addends, addition, counting.

Lesson 3: **Adding with a Number Line**
   Code: C319G02U03L03

Objectives
- ▶ Add with a number line.

Keywords
- ▶ add, addition, number line.

Lesson 4:   **Combinations of Addition**

  Code: C319G02U03L04

  Objectives

  ▶ Apply the properties of addition.
  ▶ Add by counting forward.
  ▶ Add with a number line.
  ▶ Combine addends to find the total.

  Keywords

  ▶ addends, property of zero, property of order, properties of addition, number line, sum.

Lesson 5:   **Subtracting**

  Code: C319G02U03L05

  Objectives

  ▶ Subtract one-digit numbers.
  ▶ Identify the parts of a subtraction equation.

  Keywords

  ▶ difference, minuend, subtract, subtrahend.

Lesson 6:   **Subtracting with a Number Line**

  Code: C319G02U03L06

  Objectives

  ▶ Subtract with a number line.

  Keywords

  ▶ number line, subtract.

Lesson 7:   **Combinations of Subtraction up to 18**

  Code: C319G02U03L07

  Objectives

  ▶ Write and solve subtraction combinations.

  Keywords

  ▶ subtraction combinations.

Unit 4: Adding Two-Digit Numbers

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Adding Two-Digit Numbers**
Code: C319G02U04L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Adding Tens**
Code: C319G02U04L01
Objectives
- ▶ Add tens.
- ▶ Observe tens when adding two-digit numbers.
- ▶ Count tens
- ▶ Write the sum of two digits by using tens.

Keywords
- ▶ add, ones, tens, two digits.

Lesson 2: **Counting Forward**
Code: C319G02U04L02
Objectives
- ▶ Count to add.
- ▶ Add ones and tens.

Keywords
- ▶ add, ones, tens.

Lesson 3: **The Tens and the Ones**
Code: C319G02U04L03
Objectives
- ▶ Add tens and ones.
- ▶ Observe tens and ones when adding two-digit numbers.
- ▶ Count tens and ones.
- ▶ Write the sum of two-digit numbers by using tens and ones.

Keywords
- ▶ ones, tens.

Lesson 4: **Regrouping Ones in the Tens**

   Code: C319G02U04L04

  Objectives

> ▶ Add tens.
> ▶ Observe tens and ones.
> ▶ Regroup ones in the tens.

  Keywords

> ▶ ones, regrouping, tens.

Lesson 5: **Adding Tens and Ones**

   Code: C319G02U04L05

  Objectives

> ▶ Add tens.
> ▶ Observe tens when adding two-digit numbers.
> ▶ Count tens.
> ▶ Write the sum of two digits by using tens.
> ▶ Solve word problems.

  Keywords

> ▶ ones, regrouping, tens.

Lesson 6: **Regrouping to Add Tens and Ones**

   Code: C319G02U04L06

  Objectives

> ▶ Add tens.
> ▶ Regroup to add tens and ones.
> ▶ Solve addition word problems.

  Keywords

> ▶ ones, regrouping, tens.

Lesson 7: **Adding Two-Digit Numbers**

Code: C319G02U04L07

Objectives

- ▶ Add two-digit numbers.
- ▶ Regroup to add.
- ▶ Solve word problems.

Keywords

- ▶ add, two digits.

Lesson 8: **Estimating Addition**

Code: C319G02U04L08

Objectives

- ▶ Estimate sums.
- ▶ Round to the nearest ten in order to estimate.
- ▶ Add two-digit numbers.
- ▶ Solve addition word problems.

Keywords

- ▶ estimate, round, tens, hundreds.

Unit 5: Subtracting Two-Digit Numbers

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Subtracting Two-Digit Numbers**
  Code: C319G02U05L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Subtracting Tens**
  Code: C319G02U05L01

Objectives

▶ Subtract tens.

Keywords

▶ ones, subtract, tens, two digits.

Lesson 2: **Counting Back**
  Code: C319G02U05L02

Objectives

▶ Count to subtract.
▶ Subtract tens and ones.

Keywords

▶ count, ones, tens.

Lesson 3: **Regrouping Tens in Ones**
  Code: C319G02U05L03

Objectives

▶ Regroup the tens in the ones.

Keywords

▶ regroup, tens.

Lesson 4:   **Subtracting Tens and Ones**
  Code: C319G02U05L04
   Objectives
- ▶ Subtract tens and ones.
- ▶ Regroup in order to subtract tens and ones.

   Keywords
- ▶ ones, subtract, tens.

Lesson 5:   **Regrouping to Subtract Tens and Ones**
  Code: C319G02U05L05
   Objectives
- ▶ Regroup the tens in the ones.
- ▶ Regroup to subtract tens and ones

   Keywords
- ▶ ones, regroup, tens.

Lesson 6:   **Subtracting Two-Digit Numbers**
  Code: C319G02U05L06
   Objectives
- ▶ Subtract two-digit numbers.

   Keywords
- ▶ digit, ones, regroup, subtract, tens.

Lesson 7:   **Checking a Subtraction**
  Code: C319G02U05L07
   Objectives
- ▶ Add in order to check the result of the subtraction.

   Keywords
- ▶ check the subtraction.

Unit 6: Adding and Subtracting Three and Four-Digit

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Adding and Subtracting Three and Four-Digit**
Code: C319G02U06L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Adding Hundreds**
Code: C319G02U06L01
Objectives
▶ Add hundreds.
Keywords
▶ hundreds, sum.

Lesson 2: **Adding Ones, Tens and Hundreds**
Code: C319G02U06L02
Objectives
▶ • Add ones, tens and hundreds.
Keywords
▶ addition, hundreds, ones, tens.

Lesson 3: **Regrouping Ones and Tens**
Code: C319G02U06L03
Objectives
▶ Regroup ones and tens.
Keywords
▶ ones, tens, regroup.

Lesson 4: **Adding Three and Four-Digit Numbers with Regrouping**
Code: C319G02U06L04
Objectives
▶ Add three and four-digit numbers with regrouping.
Keywords
▶ sum by regrouping.

Lesson 5: **Subtracting Hundreds**

  Code: C319G02U06L05

    Objectives

      ▶ Subtract hundreds.

    Keywords

      ▶ hundreds, subtraction.

Lesson 6: **Subtracting Ones, Tens, Hundreds, and Thousands**

  Code: C319G02U06L06

    Objectives

      ▶ Subtract ones, tens, hundreds, and thousands.

    Keywords

      ▶ hundreds, ones, tens, subtract, thousands.

Lesson 7: **Subtracting by Regrouping**

  Code: C319G02U06L07

    Objectives

      ▶ Regroup the subtraction.

    Keywords

      ▶ regroup.

Lesson 8: **Subtracting Three-Digit Numbers**

  Code: C319G02U06L08

    Objectives

      ▶ Subtract three-digit numbers.

    Keywords

      ▶ three-digit subtraction.

Unit 7: Geometry and Fractions

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Geometry and Fractions**
  Code: C319G02U07L00

  Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Three-Dimensional Shapes**
  Code: C319G02U07L01

  Objectives
  ▶ Identify three-dimensional shapes by their name.
  ▶ Name three-dimensional shapes: cone, sphere, and cylinder.
  ▶ Color three-dimensional shapes.

  Keywords
  ▶ cone, cube, cylinder, rectangular prism, sphere.

Lesson 2: **Faces, Edges and Vertexes**
  Code: C319G02U07L02

  Objectives
  ▶ Identify how many sides and how many corners each solid figure has.

  Keywords
  ▶ corners, edge, face, side, vertex.

Lesson 3: **Two-Dimensional Shapes**
  Code: C319G02U07L03

  Objectives
  ▶ Identify two-dimensional shapes.
  ▶ Name two-dimensional shapes: circle, triangle, rectangle, and square.
  ▶ Identify solid figures that are used to draw plane figures.

  Keywords
  ▶ circle, rectangle, square, triangle.

Lesson 4: **The Relation Between Two and Three Dimensional Shapes**

   Code: C319G02U07L04

   Objectives

   ▶ Identify and recognize the geometric three-dimensional shapes.

   Keywords

   ▶ face, circle, square, cube, sphere, pyramid, prism, rectangle, ratio, triangle.

Lesson 5: **Congruence in Two-Dimensional Shapes**

   Code: C319G02U07L05

   Objectives

   ▶ Identify and explain what the congruent figures are.

   Keywords

   ▶ congruent figures.

Lesson 6: **The Axis of Symmetry**

   Code: C319G02U07L06

   Objectives

   ▶ Determine the symmetry of a figure.

   ▶ Identifies symmetry in their environment.

   Keywords

   ▶ line of symmetry, symmetry.

Lesson 7: **Movements of a figure**

   Code: C319G02U07L07

   Objectives

   ▶ Recognizes the movements of translation and rotation.

   ▶ Describes and identifies movements in a two-dimensional figure.

   Keywords

   ▶ rotation, translation.

Lesson 8: **Patterns with Figures**

   Code: C319G02U07L08

   Objectives

   ▶ Recognize and create patterns.

   Keywords

   ▶ pattern, repetition, sequence.

Lesson 9: **Fractions**

   Code: C319G02U07L09

  Objectives

      ▶ Recognize and use unit fractions.

  Keywords

      ▶ fractional units, unit fractions.

Lesson 10: **Other Fractions**

   Code: C319G02U07L10

  Objectives

      ▶ Write fractions.

      ▶ Identify and write fractions that represent a whole.

      ▶ Write fractions to determine the parts of a group.

  Keywords

      ▶ integer, unit fractions, fractional units.

Unit 8: Measurement

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 1:   **The Ruler**

    Code: C319G02U08L01

    Objectives

- ▶ Use arbitrary units to measure.
- ▶ Use a ruler to measure.

    Keywords

- ▶ ruler, inches.

Lesson 2:   **Measuring in Inches, Feet, and Yards**

    Code: C319G02U08L02

    Objectives

- ▶ Measure objects using units of measurement like inches, feet, and yards.

    Keywords

- ▶ foot, inch yard.

Lesson 3:   **Centimeters**

    Code: C319G02U08L03

    Objectives

- ▶ Use the centimeter as unit of measurement.

    Keywords

- ▶ centimeter, measure, ruler.

Lesson 4:   **Meters**

    Code: C319G02U08L04

    Objectives

- ▶ Identify objects that can be measured in meters.

    Keywords

- ▶ centimeters, measuring tape, meter.

Lesson 5: **Weight in Pounds**

   Code: C319G02U08L05

    Objectives

       ▶ Determine the weight of an object in pounds.

    Keywords

       ▶ balance, pound, weight.

Lesson 6: **Weight in Kilograms**

   Code: C319G02U08L06

    Objectives

       ▶ Determine the weight of an object in kilograms.

    Keywords

       ▶ balance, kilogram, weight.

Lesson 7: **Capacity**

   Code: C319G02U08L07

    Objectives

       ▶ Determine the capacity of different containers.

    Keywords

       ▶ capacity, container, cup, measurement, tablespoon.

Lesson 8: **The Cup, the Pint, the Quart, and the Gallon**

   Code: C319G02U08L08

    Objectives

       ▶ Identify the cup, the pint, the quart, and the gallon as units to measure capacity.

    Keywords

       ▶ cup, gallon, measure, pint, quart.

Lesson 9: **The Liter**

   Code: C319G02U08L09

    Objectives

       ▶ Use the liter as a unit to measure capacity.

    Keywords

       ▶ capacity, liter, measure.

Lesson 10:   Perimeter and Area

Code: C319G02U08L10

Objectives

▶ Determine the perimeter of a figure.

▶ Determine the area of a figure.

Keywords

▶ area, perimeter.

Unit 9: Money

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Money**
Code: C319G02U09L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Coins**
Code: C319G02U09L01

Objectives

▶ Identify the coins.
▶ Compare the coins.
▶ Count the coins.
▶ Establish relations between coins.

Keywords

▶ cents, coins, dollars, quarter.

Lesson 2: **Counting Coins**
Code: C319G02U09L02

Objectives

▶ Identify the coins.
▶ Organize the coins from greatest to least.
▶ Count the coins.
▶ Establish relations between coins.

Keywords

▶ cents, coins, counting coins, greater value, lesser value.

Lesson 3: **Counting Dollars and Cents**
Code: C319G02U09L03

Objectives

▶ Identify the coins and the dollar.
▶ Count in sequences of 5 by 5, 10 by 10, and 25 by 25.
▶ Solve problems.
▶ Establish relations between coins.

Keywords

▶ cents, counting dollars and cents.

Lesson 4: **Equal Quantities**

Code: C319G02U09L04

Objectives

- ▶ Identify the coins.
- ▶ Compare the coins.
- ▶ Count the coins.
- ▶ Group and combine coins.
- ▶ Establish relations between coins.

Keywords

- ▶ cents, coins, dollars, equal amounts, money.

Lesson 5: **Money for Buying Things**

Code: C319G02U09L05

Objectives

- ▶ Identify the coins.
- ▶ Compare the coins.
- ▶ Count the coins.
- ▶ Calculate totals and differences.
- ▶ Establish relationships between coins.

Keywords

- ▶ cents, coins, compare coins, count coins, dollars, money, money needed for buying.

Lesson 6: **Adding or Subtracting Money**

Code: C319G02U09L06

Objectives

- ▶ Observe and combine coins.
- ▶ Add money with and without regrouping.
- ▶ Subtract money with and without regrouping.
- ▶ Solve money-related problems.

Keywords

- ▶ adding and subtracting money, cents, dollars, money.

Unit 10: Time

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0:   **Time**
  Code: C319G02U10L00
  Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1:   **The Hour and the Half Hour**
  Code: C319G02U10L01
  Objectives
    ▶ Identify the hour and half an hour.
    ▶ Write the hour and half an hour.
  Keywords
    ▶ hour, half hour, digital clock, analog clock.

Lesson 2:   **The Quarter of an Hour**
  Code: C319G02U10L02
  Objectives
    ▶ Identify the quarters of an hour.
    ▶ Write the quarters of an hour.
  Keywords
    ▶ hour, quarters, quarter of an hour.

Lesson 3:   **The Day**
  Code: C319G02U10L03
  Objectives
    ▶ Identify the difference between morning, afternoon, and evening.
    ▶ Identifies noon and midnight.
    ▶ Abbreviate the hours in a.m. or p.m.
    ▶ Recognize time relations.
    ▶ Recognizes the calendar and the relationship between days, weeks, and months.
  Keywords
    ▶ days, months, weeks, morning, afternoon, evening, year, midnight, noon.

Lesson 4:   Time Elapsed

Code: C319G02U10L04

Objectives

> ▶ Recognize time relations.
> ▶ Calculate elapsed time.
> ▶ Solve problems.

Keywords

> ▶ elapsed time.

Lesson 5:   Estimating Time

Code: C319G02U10L05

Objectives

> ▶ Recognize time relations.
> ▶ Estimate time.

Keywords

> ▶ estimate.

Lesson 6:   The Calendar

Code: C319G02U10L06

Objectives

> ▶ Recognize time relations.
> ▶ Use the calendar to collect information.

Keywords

> ▶ calendar.

Unit 11: Statistics

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Statistics**
    Code: C319G02U11L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Tables**
    Code: C319G02U11L01

Objectives
- ▶ Use data charts to solve problems.
- ▶ Read, analyze, and build data tables.

Keywords
- ▶ chart, data tables.

Lesson 2: **Surveys**
    Code: C319G02U11L02

Objectives
- ▶ Make surveys and analyze the data obtained from them.
- ▶ Build a table with the data obtained from a survey.

Keywords
- ▶ surveys.

Lesson 3: **Pictographs**
    Code: C319G02U11L03

Objectives
- ▶ Analyze pictographs.

Keywords
- ▶ pictographs.

Lesson 4: **Bar Graphs**
    Code: C319G02U11L04

Objectives
- ▶ Analyze and build bar graphs.

Keywords
- ▶ bar graphs.

Lesson 5:   The Cartesian Plane
Code: C319G02U11L05
Objectives
▶ Identify and locate coordinates on the Cartesian Plane.
Keywords
▶ linear graphs, points at a linear graph.

Lesson 6:   Building Data Graphs
Code: C319G02U11L06
Objectives
▶ Make different graphs using sets of data.
Keywords
▶ building data graphs.

Lesson 7:   Probability
Code: C319G02U11L07
Objectives
▶ Determines the probability of an even occurring.
▶ Performs simple experiments to determine probability.
Keywords
▶ experiments, probability.

Unit 12: Greater Numbers, Multiplication, and Division

At the end of this unit, the student will achieve the objectives found in the following lessons.

Lesson 0: **Greater Numbers, Multiplication, and Division**
    Code: C319G01U12L00

Unit Documents: Learning While Playing, Problem Solving, Unit Review I & II and What I Learned

Lesson 1: **Repeated Addition and Multiplying**
    Code: C319G02U12L01
    Objectives
      ▶ Use repeated addition to recognize the multiplication.
    Keywords
      ▶ multiplication.

Lesson 2: **Skip Counting to Multiply**
    Code: C319G02U12L02
    Objectives
      ▶ Use addition to be able to multiply.
    Keywords
      ▶ add, multiplication.

Lesson 3: **Making Equal Groups**
    Code: C319G02U12L03
    Objectives
      ▶ Divide objects into equal parts.
    Keywords
      ▶ multiplication.

Lesson 4: **Properties of Multiplication**
    Code: C319G02U12L04
    Objectives
      ▶ Identify properties of multiplication.
      ▶ Applies the properties of multiplication (identity, commutative and associative).
    Keywords
      ▶ associative property, commutative property, identity property.

Lesson 5:   **Repeated Subtraction**

     Code: C319G02U12L05

       Objectives

           ▶   Use repeated subtraction to recognize the division.

       Keywords

           ▶   division, subtraction.

Lesson 6:   **Division**

     Code: C319G02U12L06

       Objectives

           ▶   Divide objects into equal parts.

           ▶   Relate the repeated subtraction with the division.

       Keywords

           ▶   division, subtract.